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6 ' #4 B A ' > 14 35' 564 ' 743@ >% A' 23@' 8 B4>5235' : 35)' 7 56' 7 6 16' 56 ' 6> 5 23' > A ? 43' 23@' 56 ' : 3 ' 564>' 4%' 5' 7 > ' 35>4@ 1 @' 354' 56 ' 74>A@)' 23@' 7 6 16' 62 : ' B>4@ 1 @' 4' ?> 25' 2' 1623? ' 3' 56 ' B> 31 BA)' 56 ' 8 233 >)' 56 ' 8 4>2A)' 23@' 56 ' 5 8 B4>2A' 2 ' 7 AA' 2 ' B > 5 2A' 143@ 5 43' 4%' 8 23< 3@ ' 6 9' > A25 ' 56 ' % > 5' 2BB 2>231 ' 4%' 6> 5' B43' 2>56 ' C5>24>@ D 32>9' 23@' 8 >21 A4 ' ; >56)' 56 ' 5 5 8 439' ; 4>3 ' 54' 8 ' ; 9' ' %4> > 33 >)' *463' 56 ' &2B5 5)' 5A ' 5 8 B525 43' 3' 56 ' 7 A@ >3)' 56 ' 4B 3 3?' 4%' ' : 3 ' 148 8 43)' 56 ' B >)' 56 ' B >% 15)' 23@' ; A 8 ' 8 4>2A 59' 7 6 16' ' 52 ?65)' B 1 2AA9' 3' ' 3 8 52 ; A ' >8 43' 43' 56 ' 8 4 35.' 56 ' 3% 3 5 ' B > 4> 59' 7 6 16' ' 6 7 @' 54' : >9' 456 >' 8 4>2A' 5 216 >)' ;456' 3' 56 ' 8 255 >' 23@' 8 233 >' 4%' ' @ 14 >)' 8 4> ' B2>5 1 A2>A9' ;9' 1> 6 3?' : 1 ' 3' 5 ' : >9' 1>2@A)' 3' 56 ' % > 5' > 3? ' 4%' 7 1< @' @ > ' 23@

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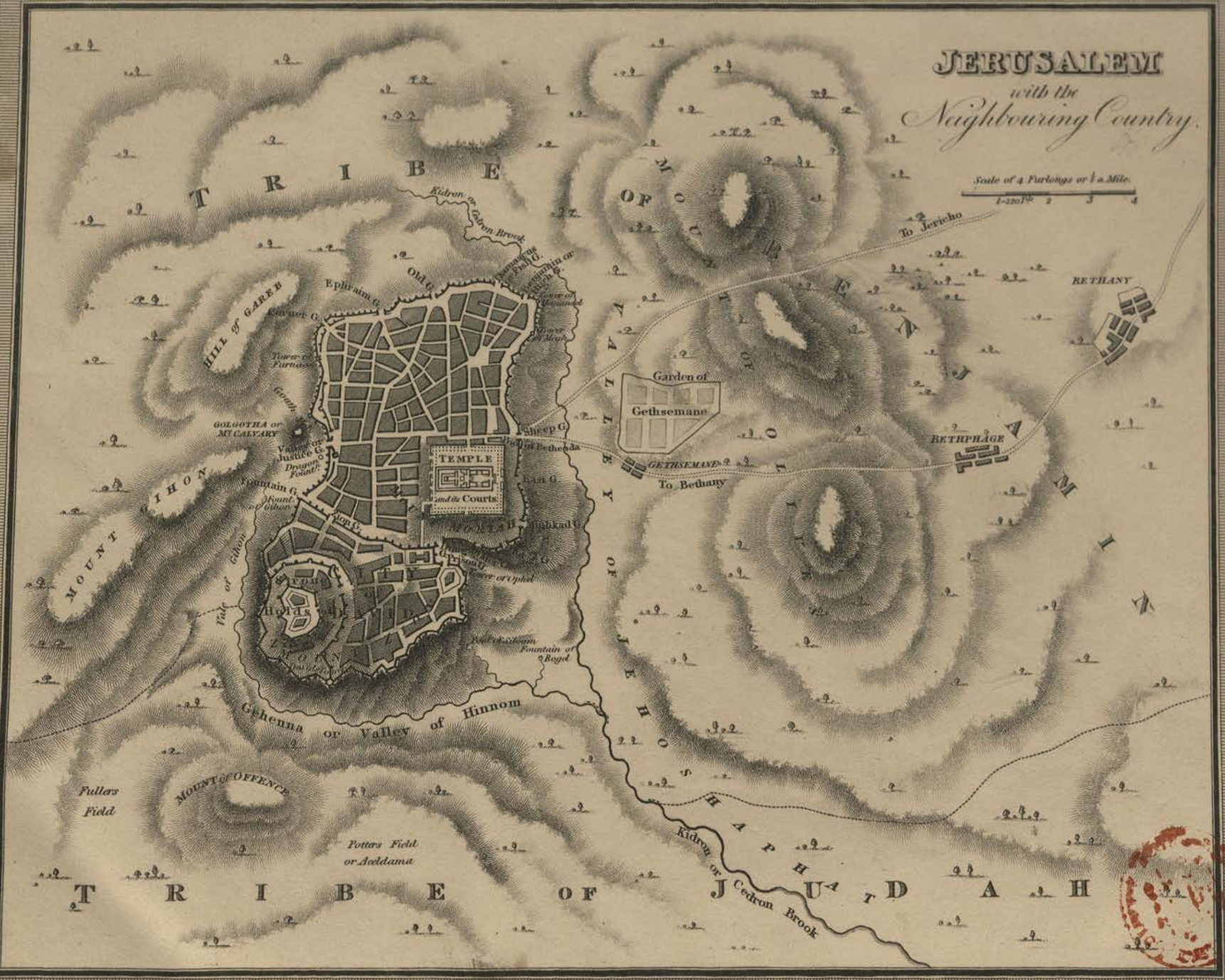
B>4B 5 1=' 3' 56 ' 6 2>5)' ; 9' ? : 3?' 2' @ 1 @ @' B> % > 31 ' 4 %' 56 ' 8 A@)' ? 35A)' B2 :)' 1431 A 25 3?' : >5)' 54' 5625' : 4A 35)' : 3D @ 15 :)' 6 ?6 B > 5 @)' 3%4>? : 3?' 5 8 B >)' 7 6 16' 62 ' ; 3' 2A:929 ' 544' 8 16' 56 ' %2 : 4 > 5 ' 162>215 >' 4 %' 56 ' 7 4>A@' .' ; 9' > G > 3?' 54' %4>? : ' 4 >' : >9' 3 8)' 23@' 54' @4' ?44@' 54' 56 8 ' 5625' 625 ' .' ; 9' C1A @ 3?' %>4 8 ' 4 >' @ : 45 43)' 4 >' 2A 8)' 23@' 2A' 4 >' : >5)' A > ?2>@' 54' %2 8)' > B 525 43)' 23@' 2BBA2 '+' ; 9' A29 3?' @4 7 3' 5 7 4' ?> 25' ? 3 >2A' B> 31 BA ' 4 (' 8 4>2A 59)' A4 : ' 54' #4@)' 23@' A4 : ' 54' 8 23< 3@)' 23@' @ @ 1 3?' %>4 8 ' 56 31 ' : >9' 456 >' 6 823' @ 59 .' ; 9' 143 : 9 3?' ' 3 5> 15 43 ' 3@ >' 56 ' 2 9)' %2 8 A 2>)' 23@' 8 B> : ' %4> 8 ' 4 %' B2>2 ; A 'g ; 9' CB> 3?' 8 A%' 3' 2' 543 ' 4 %' @ ?3 59' 63@' 2 564> 59' 3<347 3' ; %4> ' .' ; 9 C ' 8 B %9 3?' : >9' : >5 ' 5625' ' 52 ?65' 3' ' 473' 3 ; A 8 6 @' 23@' B >% 15' A % ' 23@' 143 : > 25 43 .' 23@)' 2 ; 4 : ' 2AA)' ; 9 @@ 3 ' 564 ' 27 % A' 2315 43)' 7 6 16' ' 2A43)' 4 %' 2AA' 8 4>2A' 3 5> 154>)' 62@' 56 ' B47 >' 54' 64A@' 4 5)' 5 >32A' > 72>@ ' 54' 56 ' : >5 ')' 23@ 5 >32A' B 3 68 35 ' 54' 56 ' 7 1< @ ' 6 ' 21> @' 32>>25 : ' 56 3' > B> 35' 54' ' 56 ' 6 ?6' 162>215 >' 5625' ' 2 8 @)' 56 ' 1A2 8' ' 82@ ' 54' 2' : 3 ' 4> ? 32A.' 56 ' 743@ >% A' 8 >21A ' ' 7>4 ?65' 3' B>44 %' 4 %' ' @ : 3 59' +' 56 ' : 2> 4 ' B>4B6 1 ' 7616' BA2 3A9' 82>< @' 8 ' 4 5' 2 ' 56 ' 26)' 56 ' #> 25' A : > >' 4 %' 56 ' * 7 .' 56 ' @ 1A2>25 43 ' ' 82@ ' 5625' ' 128 ' 54' 4%% >? 8 A%' 2' 21> % 1 ' %4>' 56 ' 3 ' 4 %' 2AA' 8 23< 3@.' 56 ' 1> A' 3@ ?3 5)' %% > 3? ' 23@' B > 1 5 43)' 54' 7 6 16)' 3' 143 G 31 ' 4% 56 ' ?> 25' @ ?3 ' ' 72 ' CB4 @'+' 56 ' 2114 8 BA 68 35' 4 %' 5' ; 9' 56 ' B2 3% A' 23@' ?34 8 3 4 ' @ 256' 54' 7 6 16' ' ; 8 55 @)' ; 9' ' > >> 15 43' ?%5 >' 56> ' @29 ' %>4 8 ' 56 ' ?>2 :)' ; 9' ' 2 1 3 43' 354' 6 2 : 3)' ; 9' ' 55 3?' 56 > ' 25' 56 ' > ?65' ; 23@' 4% #4@)' 23@' B >%4>8 3?' 56 ' 4%% 1 ' 4 %' 2' @ 254>' 23@' 35 >1 4>' %4>' 56 ' 3% A' 43 ' 4 %' 8 3)' 5 AA' ' 62AA' 148 ' 2' 143@' 5 8 ' 3 ' ?A4>9' 54' 5' 3' + @?8 35' 43' 2AA' 8 23< 3@)' 23@' @ 1 @ ' 56 >' % 32A' @448 ' 4 %' 62BB 3 ' 4>' 8 >9' %4>' : > ' 6 ' 2> ' 56 ' 84D 8 354)' 56 ' 35 > 5 3?'5> 56)' 43' 7 6 16' 56 ' #4 B A ' B> 31 B2AA9' @ 7 AA ' -+' *% $ +



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Map of
PALESTINE
Illustrating the
NEW TESTAMENT.
Scale of Miles.
5 10 20 30
35
36
33
32
PHOENICIA
GALILEE
SAMARIA
PERÆA
IDUMÆA
ARABIA
TRACHONITIS
GREAT SEA
DEAD SEA
Longitude East of Greenwich
SIDON
Sarepta
TYRE
PTOLEMAIS
Mt Carmel
Nazareth
Mount Tabor
Tiberias
Nain or Naim
Cesarea
SAMARIA
Mt Ebal
Sychar
Antipatris
Joppa
Lydda
Arimathea
JERICHO
Emmaus
JERUSALEM
Azotus
Bethlehem
Hebron
GAZA
Ziklag
Abila
DAMASCUS
Mount Hermon
Gadara
Gerasa
Mountains of Gilead
Plain of Sharon
Mountains of Ephraim
Wilderness of Judæa
R. Jordan
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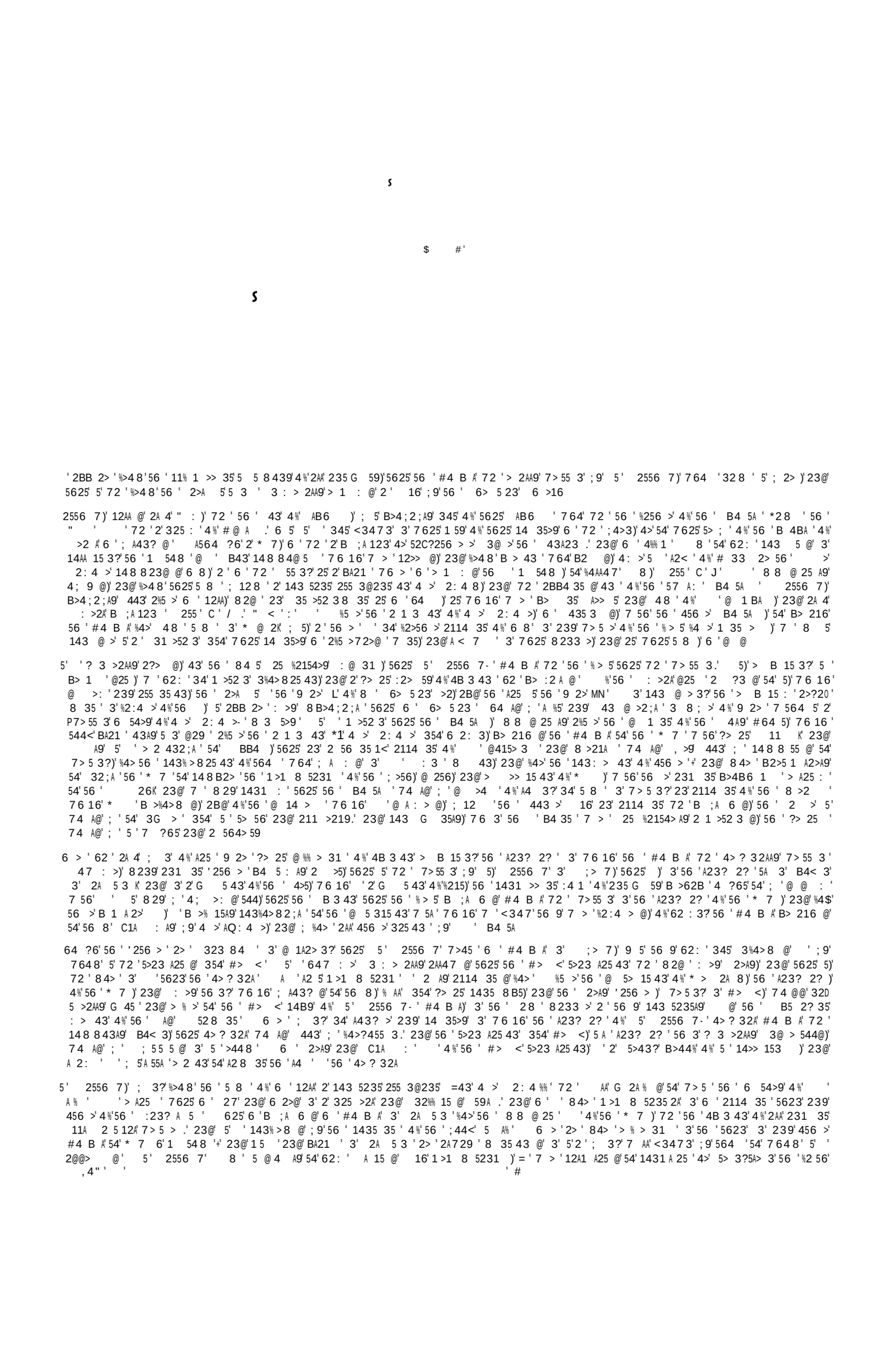

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"&* 16 A3"+'%+ -*0%) 3*</"1'%+ %16 /'+ 2@) &4) -(*)/2*1!%-"4))/*)'&*)/* B*2*<%22'*6 &0, %B%)"% - ("1 .30" A9 16 %#)*2)/* B*2* -2"40/))"% ± /2"1 - ("1! 83*</"1'%+ -*0%) %()/'*(%16 % ? !AI 3%)/'*(-*0%) @"2"-%-*(A? 16 @"2"-%-*(-*0%) -'46'$ %16 -'46'-*0%) ('%.'&'= %16 ('%.'&'-*0%) D"2'$

AC 46; D"2 -*0%) %6"< ;%16 %6"< -*0%) <-'& %16 <-'&'-*0%) ('46 A:' 16 ('46'-*0%) (*%D%2'%16 (*%D%2 -*0%) %))/%1'%16 %))-%1'-*0%) 3%<"- AE 16 3%<"-'-*0%) 3"+*K/)/*/4+-%16 "# %2 ! "# B/"&B%+ -"21 3*+4+! B/"' '+ <%((*6 /2'+) "' %(( )/*0*1*2%)'"1+ #2"& -2%/%&)"' %5'6 %' #"42)**1 0*1*2%)'"1+ %16 #2"& %5'6 41)'( )/*' <%22$410 %B% '1)"' %- ("1 %' #"42)**1 0*1*2%)'"1+ %16 #2"&')/*' <%22 '10 %B% '1)"' %- ("1 41)"' /2'+) %'#"42)**1 0*1*2%)'"1+ /* '%4 AJ P "B)/*' Q -'2)/' "#3*+4+ /2'+) B%+ "1)/'+ B'+* /*1 %+ /'+ &")/*2 2 B%+ *+K"4+*6)"3"+*K/! -*#"2*)/* 2K24 11% <%&*')<P*)/*2! +/*B%+#"416'B')/'</'(6 "#)/*' "(/"+)

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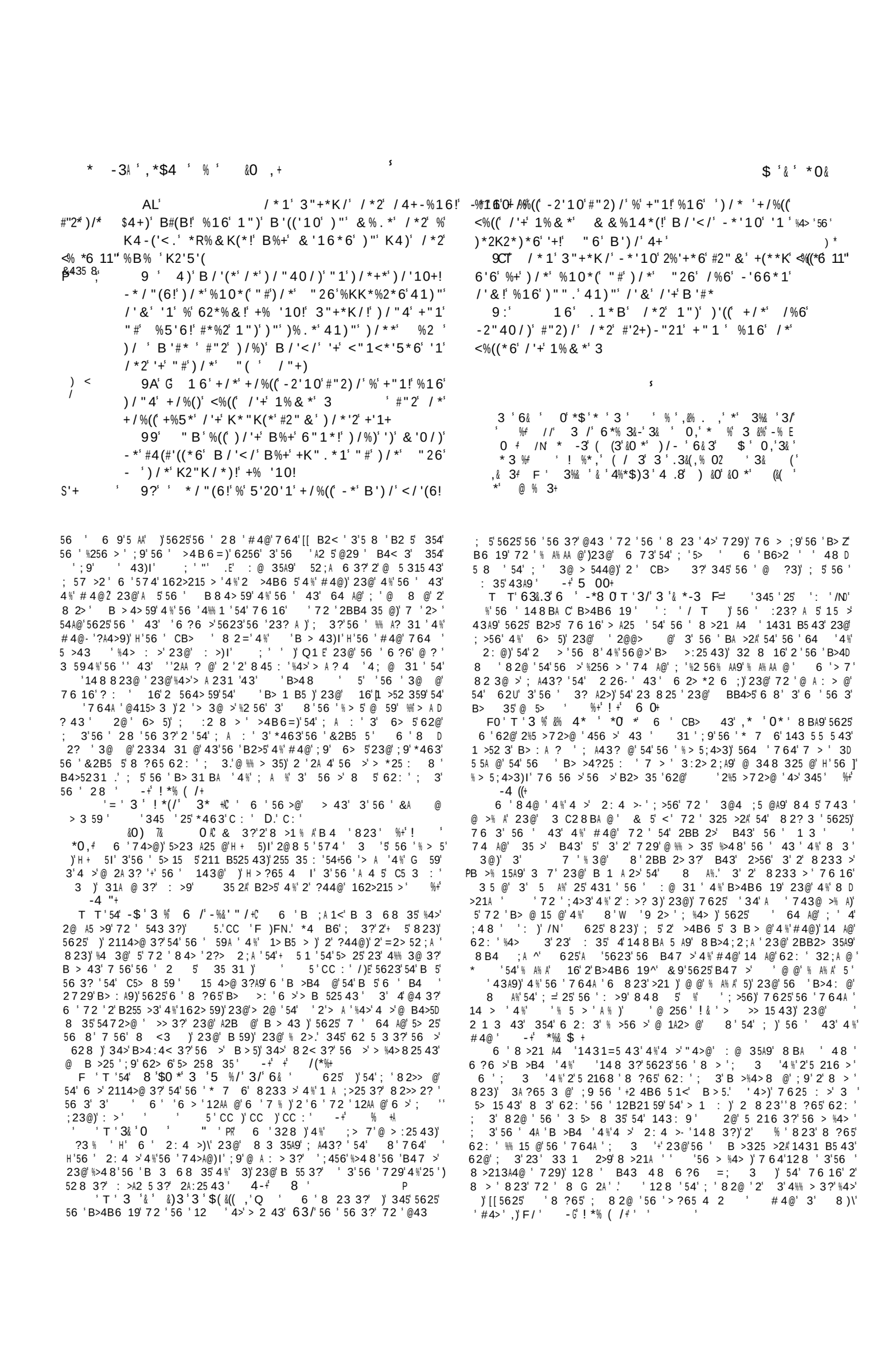

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Painted by Nicholas Poussin. *Engraved by H.Moses.*

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Matthew ch. 2. ve. 16.

Published by the Society for promoting Christian Knowledge, July 1.1815.

Painted by Salvator Rosa. *Engraved by Geo. Cooke.*

JOHN THE BAPTIST PREACHING IN THE WILDERNESS.

Mat. C.3.V.1

London Published by the Society for promoting Christian Knowledge, Nov. 1st 1811.

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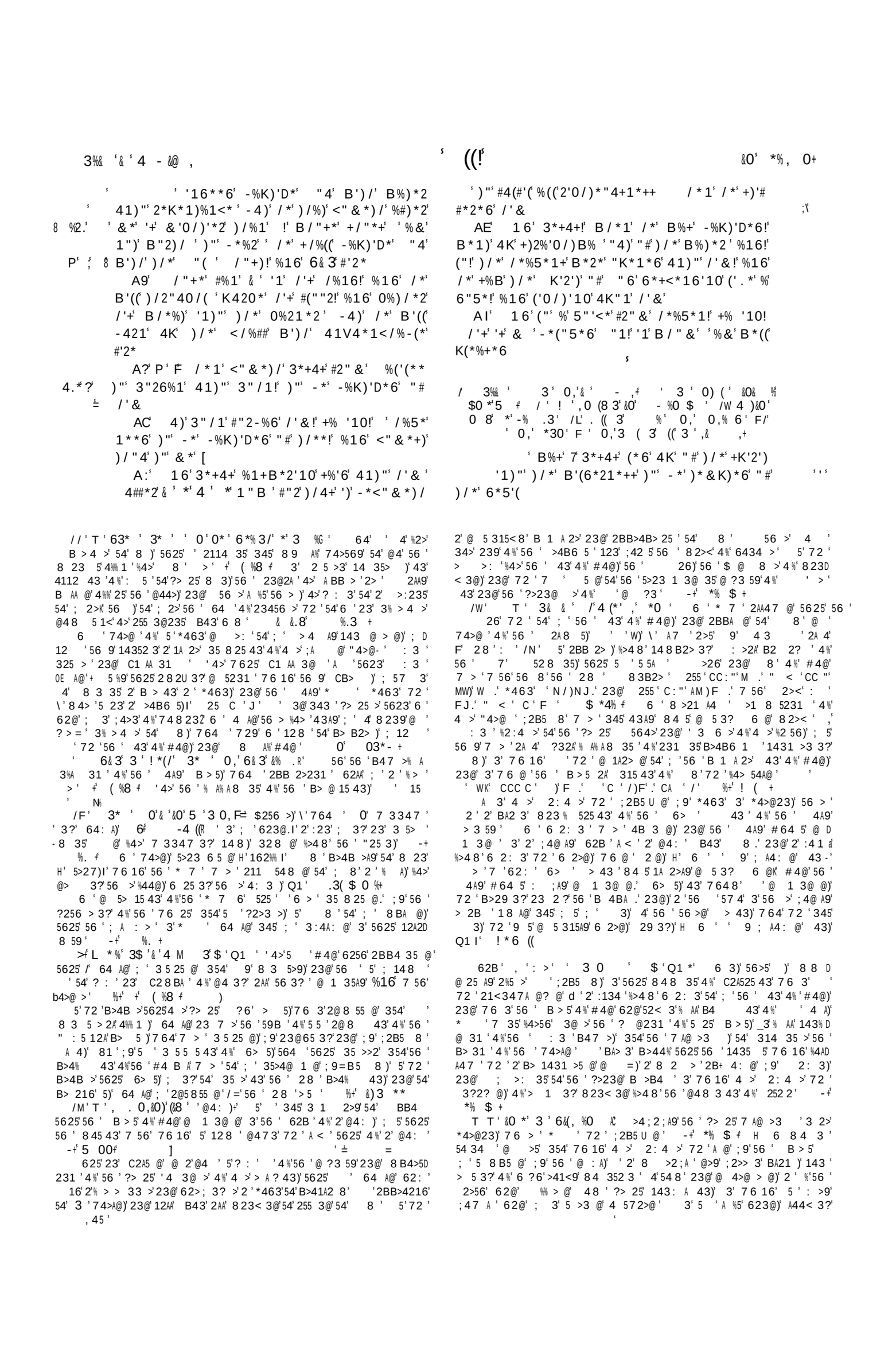

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++++ *%'&'3'6%& 0'Q1 R' 6 '5 8B5 >)'B >1 : 3?' 25' 6> 5 > A @' 43'56 '2 564> 59'4%' 1> B5 >)'347' 3%>1 '6 '5 8B525 43' 7 56' >B6 >)'8 2BBA @'23@'8 8@ > 544@' 3'23 7 >'54'56)' 4 >' 2: 4 >' CB4 '6 ' 8 2BBA 125 43' 4%' 1> B5 >)' ;9' 23456 >' 5 C5'76 16'%4>A3@ '2'B> 8B5 4 '% 2A'4%'#4@-'B>45 15 43' -+ 3 %(*.8+

<' T' 3*$' 3 ('0*' -'&8' *%,N' 64 ' 62A5 345'> 6' 354 33 1 2>9'@23? >' 3' 4>@ >'54'5 8B5' *,'&0' 4>@ >'54'5>9' 76 ' 56 >' '7 AA' 35 >B4 '54' 2:'56 ' 3'2' 8 >21 A4 ' 8233 >.' 8 16' A '4 ?65' '54';'@43 '2'347'B>4B4 @)'%4>'B >B4 '* ' 0& /' 23@'4 5 3525 43' -+' *% $ &

6 '$ @ 8 8 '4%'56 '74>A@)'%2>'%>48';3?'@ 1431 >5 @'25'56 ' @@ 3' 1623? ' 4 '56 ' ;+ 15)'4>' @2UUA @';9' 4' B 1 4 '2'BA 2)' 12A 8 A9' 23 7 > ';9' 23456 >'5 C5' 4%' 1> B5 >)' CBA2 3 3?' 23@' A 8 5 3?'5625' 76 16'56 ' @ 1 >'62@' 8 B >% 15A9' G 45 @' 23@' 7 >43?A9'2BBA @'' ' 23 7 >' 3 5> 15 ')'5625' 7 '4 ?65'345 %>48'@ 5> 5'54'2 <'3 7'B>44%'4%' 'B47 >)'76 > '7 '62:'62@ %%1 35' 43 ' 2A> 2@9.' 4' 3 56 >' 8 5' 7 '%>48' B> 8B5 3' >?' 8'54'@4'%4>' '7625'7 '62:'34'3 @'4%)'23@' 7625'56 > D %4> ' '62 '?: 3' '34' > ?65'54' CB 15' ' 7'56 9' 764'56>47' 2729'56 '32%4>2A' 8 23 '76 16' '62';547 @' B43' 8'%4>' B> >: 3?'56 8 A:)'%4>% 5'2AA'5 5A '54'2'B>4: @ 35 2A'B>45 15 43' 4-+' 48 %+

L)' T' 0,' 3 6 3' 3& ' (('3'8&0),* '* ' 3 '6,%(, ' 5'62' ; 3'564 ?65';9' 48 ' 2' 143 @ >2;A ' @ %% 1 A59'54'18 1 :' 647' 2523'14 A@'%>48'239'84 352 3)'647 : >' A :25 @)'\ 6 7'54'4 >' 2: 4 >'2AA'56 '< 3?@48 '4%'56 ' 2>56)'23@'56 '?A4>9'4%'56 8 I' 5' > 4 A@' ;'143 @ > @'647 : >)'5625'56 '84 352 3' 7 6 > '56 ' 41D 1 >> @)' '@ 1> ; @2 ' C1 @ 3?' 6 ?6 .' 23@' 56 ' ; ;AK' 2> 5)' B 2< 3?' 4%'56 ' 84 352 3)' 29 ' > ' 7 ' 3+49 @' 56 ' 84 5' ; 2 5% A'B>4 B 15' 82? 32;A ' 6 'B2>5'4%'56 ' 84 352 3'4: >D A44< ' '84 >52 3'4%' >2; 2)' '14 35>9'4%>#A 2@)'56 '14 35>9' 4%'56 ' 8 843 5)'56 'BA2 3'4%' 42;)'56 'BA2 3'4%'* >164)'5A7' > : >'*4>@23)'23@'56 '764A' C5 35'4%'56 ' 2@' 2' 6 ':2> D 4 '@482 3'56 '5 8B5 >' > ?65' 6 7'54'4 >'"4>@' @ 5 315A9)'23@ 8 ?65'2A=4'25' ' 28 '5 8 '-*&0'*$' %4>' 4'56 '4> ? 32A'74>@' 83 5 8 ' = %)E' 23@' @ > 15' 4 >'"4>@-' / '5472>@' D : >2A'456 >' > ? 43 '5625'A29'; 943@'56 8)'76 16' 8 ?65' 148B> D 6 3@' 2AA'56 ' B> 31 B2A' < 3?@48 ' 4%' 56 ' 2 5 >3' 74>A@' -+ *% $ +

I+ & '3*%O' 6&(' & ',*60' 0,'6*% 3&-' +M' 6 ' 2 @214 ' 23@' 8B4 ' B>4B4 <'4%' : 3 '74> 6 B)'76 16'34'5> '23? A'4A

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* ' 162*B' /'+' -2")/*2!'<%+)'10'%
? ' 1*)'1)"')/*'+*%' #"2')/* 'B*2*'#'+/*2+
AL' 16'/*'+%')/'41)"')/*&!' "(("B'&*!'
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9 ' 16')/* '+)2%'0/)B% '(*#)' 3 %1*)+!'
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9A' 16' 0"'10' "1' #2"&')/*1<*!' /*' +%B'
")/*2')B"'-2*)/2*1!'3%&*+' 3 ' *0'* '@*-* '
6**!'%16'3"/1' /'+' -2")/*2!'1' %' +/'K' B')/'
@*-*6**')/*'2'#%)/*2!'&*16'10')/*'2' 1*)+'$'
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99' 16')/* ' '&&*6'%)*('(*#)')/E' +/'K'
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9?' 16'3*+4+' B*1)' %-"4)' %((' %('(**!'
)*%</'10' '1')/*'2'P%0"04*+!'%16' K2*%</' '
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%((' &%11*2' "#' +'<.1*++' %16' %((' &%11*2' "#'
6'+*%+*'%&"10')/*'K*"K(*
9CH 16' /'+' #%&*' B*1)')/2"40/"4)' % '
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K*"K(*')/%)' B*2*')%.*1'B')/'6'5*2+'6'+*%+*+'
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+*++*6' B')/' 6*5'(+!'%16')/"+*' B/'</' B*2*!'
(41%)'<.!''%16')/"+*')/%)' /%6')/*' K%(+ '
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9:' 16')/*2*'#"((" B*6' /'&'02*%)' &4()'

56 '> 3 ' %'56 '4A@'5473'2> '@ 14: >2;A)'76 16' C5 3@ @'2 '% >'
'56 '645' ;256)' 5 25 @'2;4 5'2'A 2? '54'56 ' 2 5' 6 '2@D
+4 3 3?' A2< '2;4 3@ ' 3'% 6)' ; 5'7 '@ 14: > @ 43A9'43 '% 6 >D
823-' ';425)' 23@'5625'3 2>A9' 3' > 3)' 25' ; > 2 ' 6 'B > 43'
764'%2>8 '56 '% 6 >9'43A9' 8BA49 '6 ' 3 5 '2A43?' 5 ' ;23< '
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6' 6*'4% 3% 0' & *0'Q1R' 2@' 5'; 3'56 '4;+ 15'4%
4 >' 2:4 >'54' 52;A 6' '> A?43';9'8 > '6 823'8 23)';9'
3%A 31'4>'%4>1)';9'56 '162>8 '4%' A4G 31'4>'56 'B47 >'4%'
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3@4 ;5 @A9'62:' A 15 @' '@ 1BA '%>48'56 '4B A 35)'56 '
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76 16' '35 3@ @'54' ' '8 235'54' 6 7)'5625' '72 ' @4:'
56 8'2AA.'5625' '62@'%2>'456 >'> 4 >1)'%2>'@ % >2 5'2 CA2> '
54'12AA' 3'54' ' BB4>5)' 3'148B2> 43'7 56'76 16'2AA'56 '7 2A56)'
23@' 82?3%1 31)' 23@'B47 >)' 23@'7 5633'4%'56 '74>A@' 7 >'
5> : 2A' 23@'1435 8B5;A '56 3? ' 114>@ 3?A9'7 '%3@'5625' 345'
56 '7)'345'56 '8 ?659)'345'56 '34;A)'7 > '12AA @'54'144B >25 '
7 56' 8)';5'8 3'4%'56 '8 23 5';>56)'4%'56 'A47 5'411 B2D
5 43)'4%'56 '6 8;A 5'52A 35)' 23@' 84 5' 31 A5:25 @' 8 3@ '
-6 '% 6 >8 3'4%'#2A A '7 > '54';)' 3@ >' 8)'56 ' 3 5> D
8 35 '4%'4: >56>47 3?'56 ' 5 B 3@4 '23@'82?3%1 35' 9 5 8'*&'
B2?23 8' 23@' @4A25>9'56>4 ?64 5'56 '74>A@)' 23@' B>4@ 1 3?'56 '
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65 523@' 3' 8 3@'54' G 5'2 '5625'148 ' 3'148B 5543'7 56'6 '
@ 59)' 23@'54'%4AA47'56 ' 2:4 >' 3'56 'B256'4%'64A9'A:3?' AA'
6852 3 '8 5'4; 9' 8)';9'A 2:3?'564 '148B23 '23@' 3D
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F' T' .3&0)'&0' 3 &%' /0) -& ' 5'72 '56 '4>@ 32>9'1 D
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: >)' 5625'56 '* 7)'564 ?6'56 =' 8@'345' 2AA47'56 'A; >59'54'
AA 5 >25 'B > 43 '4>' 8 16=1<)'9 5' ?>235 @' 5'54' >4B6 5 '23@'
16'2 ' 5' B'%4>'6 2@ '4>'A 2@ > '4%'3 7' 15)' 3'4>@ >'5625'56 9'
'8 ?65' 3%4>8'56 8 A9 '4%'56 >'@415> 3)'23@'345'143@ 83'56 8'
8 2>@'23@' 3<3473' ' 3@ >'56 '162B5 >)'B>4;2;A9)' 6> 5'
23@' ' B4 5A '7 > '2@8 55 @'54'56 'B> : A ? ' >' &)3(** +
' T ' /0)*)$ ' 6 '#> <'74>@'54>' 932?4?)'2'7 AA'2'
56 ' ;>7)' ?3% ' 3'? 3 >2A'239'2 8 ;A9)'76 56 >' 21> @'4>'
B>4%23 .'; 5' 5'72 '148 843A9' @'54'@ 345 '2'BA21'4%'2 3@ A9'
%> A?4 '74> 6 B' 564> '2> '345'2?> @'> B 153?'56 '5 8 '
76 3'56 ' 3 55 543'4%' 932?4? '28 43?'56 '* 7 '; ?23.'; 5'
5' B>4;2;A '5625'Q 9'@ @'345' C 5'; %4> ' 56 '&2;9A43 6'12BD
5:59)'2'56 >' '345'43A9'34'8 3543' 56 8' 3'56 ' A@' 52D
8 35)'; 5'B2 2? '411 >' 3' 48 'B2>5'4%' 5)'76 16' 8'54'@

B>4: '56 >' C 5 31 ' 6 '* 7 ' > 15 @' 932?4? '345'43A9' '
5473' 23@' : AA2?)' ; 5'2A 4' 3'56 '14 35>9'76 > '56 > '72'2
%%1 35'143?> ?25 43)' B 12AA9'3 2>' > : >)'%4>'56 'B >B4 '4%
B > %125 43 ' >: 1 '72 '@2 A9'B >%4>8 @' 3'56 8)'143 53?4%
B>29 >)' > 2@ 3?'56 ' 0 B5 >)' 23@'B> 2@6 3?'4>' CB4 3@3?
56 8 ' '14 31 A)' 4>' 2 8 ;A9'4%'?>2: ' 23@'7 ' B > 43 '7 A%
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, $M' $ *4% +
FN1' T' 3* '63&.3' 6 %'-* ,'6&3', '&(A' 6 > '62'; 3
?> 25' :2> 59'4%'4B 3 43' > B 15 3?'56 '@ 843 212A' B4 43)'
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5625'B > 18 'H'B4 @' 7 56'@ : A I' 7 > ' 8 > A9' 82@8 3)' 23@
+ 5%9'56 >' 4B 3 43';9'7625' ' 2@'25'*463'C 'F)'H' 6256'2
@ : A)' 23@' ' 8 2@ ; 5)' 3' 5A ' B> 35' 5 C5)' 2' @ 1 : ' B>44%
8 '54'; '2%%4>@ @'5625'56 'BA >2 '9'B4 @' 7 56'@ : A)I' ?'
3% ' 48 56 3?'@ 5 315'%>48'148 843' 82@3)'; 12 '6 > '56'
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56 'B > 43 '56 > ' 8 35 43 @' 7 > '> 2AA9' B4 @' 7 56'@ : A)'
; 12 '56 '1 > '4%' 8 > ' 82@8 3' 14 A@' 345' 62: '2% 15 @' 56'
7 3)' 354' 7648'56 '@ : A ' 35 > @)' 54'56 >' @ 5> 15 43 ' -+'
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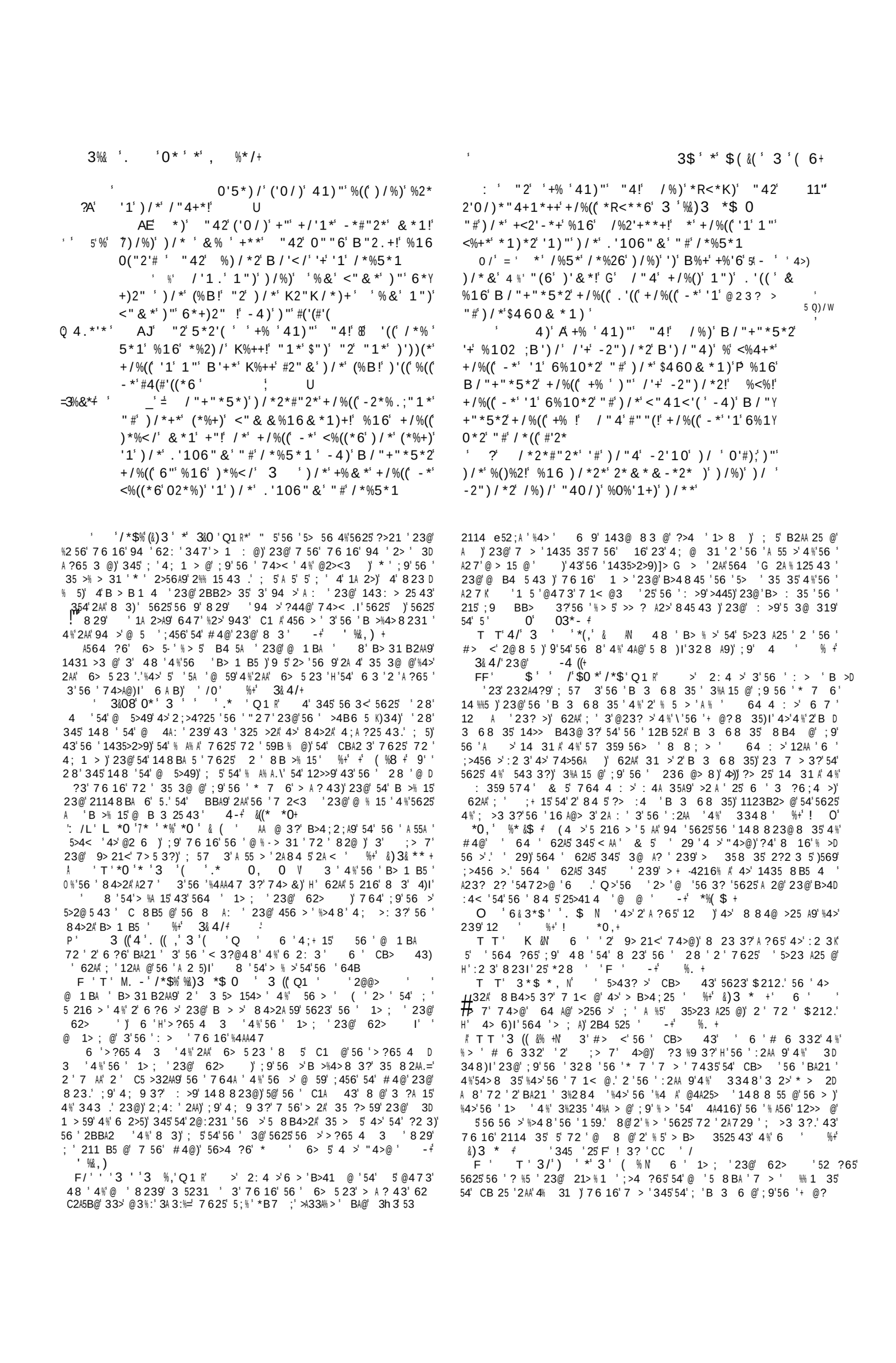
6 '345 43' 5625'56 '@ 843 21<)' 8 35 43 @' 3'56 ' 7' 52'
8 35)' 7 > '8 > A9'B > 43 '2%%A 15 @' 7 56' 5>23? '@ 2)' 829';'
'1A 2>A9'143% 5 @';9' :>2A' 143 @ >25 43 ' ' > 5)' 6 ' 1>B5 > '
56 8 A: ' 82< '2'CK43 5235' 23@'BA2 3' @ 5 315 43';57 3'56 '
1 > 3?'4%'@ 2)' 23@'56 '12 53?'4 5'@ : A .' 255 'C'/.'" <
:' N)'N*' 143@A9)' >1 8 5231 '2> '> A25 @' 76 16' 6 7'56 '
B > 58 '54'62: ';3'> 2AA9'B4 @' 7 56'@ : A '+' H' 6> 5' %% > @
345' 56 '@ : A '54' B 2<)' ; 12 '56 9' <3 7' 8 I' 2><' N'
9'54';' 6> 5)I'" < ' : 'N/' 6 '@ : A ' CB4 5 A25 '7 56' 6> 5)'
2> ' 35' 354' 56 '6 >@' 4%' 7 3)'21<3474 Zd '56 >' 328 '54';'
" ?43)' 2><' : '/T /N.'" < ' : 'FWT ' 6 >@A9)' >'"4>@
B 5 'G 543 '54'56 '@ : A)' 3+4 3 '56 8'54' ; ' A 35)'54'148 '
4 5'4%'2' 823) Q1)' 2><' 'F '+' C 'FO'.'" < ' : 'N/' '4 >56A9)'
239' 98B548 ' 6 7'56 '> 2A59'4%'56 'B4 43.' 2'56 '?>>25
5> 3?56'4%'56 'B > 43 'B4 @)'56 '% 2>' CB> @';9'56 '8 A '
4%'; 3?'@ 5>49 @)'; 3?'12 5' 354'56 '2;9)'Q1' 5'123345';'
?A4>9' 4%'56 ' 43' 4%' #4@)'8 ?65'; ' 82@ ' 823 % 5)' 3' CB AA 3?'
56 8)' 3'> ; < 3?'56 8)' 3' B 55 3?'56 8'54' 4B 3' 628)' 23@
148B AA 3?'56 8'54' B>41A2 8'5>' @ ?3 59' 5' 6> 5)' 23@'54' ; ' '
4>5'4%' 37 AA 3?'B> 216 > '23@' 7 53 '4%'56 ' = B A' 6 '
8 3'; 6 A@'25'56 ' 28 '5 8 '56 ': A '325 > '23@'56 '5 >> ;A '%4> '
4%'564 '2B4 525' B > 5)' 23@'56 ' B > 4 >' B47 >'23@'56 '?> 2A'
?44@3 '4%'56 ' 2:4 >' 4%'56 '74>A@)' 764' @ A: > @' 8 >2;A'
8 3'%>48' 16'@> 2@% A' 3 8 ' % ' *% &0



334 / 0L P' C4@ ' ≠ /N 62B' /L)Ü<" & &'))*6' %64()*2 ' B')/' /*2' %(2*%6 '1' /'+' 2><' J NW' /*%2) >)' ,* . $ ' 3 ' ,' K 0,+

9C' *%5*') /*2*) / '0'#)' -*#"2*) /*' %()%2! %16' 0"') / ' B% ' #'2+)' -*' 2*<"1<'(*6')"') / ' -2") /*2!' %16') /*1' <" & *' %16' "##*2') / ' 0'#) ' ! Ü

9:' Q 02**' B') /') /'1*' %65*2+%2 'V4'<.(!' B /'(*+') /"4' %2)' '1') /*' B% ' B') /' /'& ' (*+)' %)' %1 ')'& *') /*' %65*2+%2 ' 6*('5*2') /**')"') /*'$460*!' %16') /*'$460*' 6*('5*2') /**') "') /*' "#(<*2!' %16') /"4' -*' <%+)' '1)"' K2'+"1

9E' *2'(' ' +% ' 41)"') /**' /"4' +/%()' - ' 1K' &*%1+' <" & *' "4)') /*1<*!')'(( ) /"4' /%+)' K%'6') /*' 4)) *2& "+)' #%2) /'10

' [' *' /%5*' /*%26') /%)' ')' B%+' +%'6' - ') /*&' "#' "(6') '& *!' Q /"4' +/%()' 1")' <" & &')' %64()*2

9J' 4)' ' +% ' 41)"' "4!' /%)' B /"+"*5*2' ("". *) /' "1' %' B" &%1') "' (4+)' %#)*2' /*2' /%)(' 2' 4 >' 148 BA2 3 '5625' 6 ' '2??> : @' %+' &)3 ** +

9L' ;' 16' '#') / ' 2'0/)' * *' A"##*16') /**!' K(4<.' ')' "4)!' %16' <%+)' & ' #2K&') /** ' #"2 ')

'+' K2"#')%-(*' #"2') /**') /%)' "1*' "#') / ' &*& ' -*2+' +/"4(6' K*2'+/!' %16' 1")' 3 ') / ' B /"(*' -"6 ' +/"4(6' -*' <%+)' '1)"' /*((

? ' 16' '#') / ' 2'0/)' /%16' "##*16') /**!' <4)' ')' "##!' %16' <%+)' & ' #2" &') /**' ' #"2' ')' '+' K2"#')%-(*' #"2') /**') /%)' "1*' "#') / ' &*& -*2+' +/"4(6' K*2'+/!' %16' 1")' 3 ') / ' B /"(*' -"6 ' +/"4(6' -*' <%+)' '1)"' /*((

?A')' /%) /' -**1' +%'6!' ' /"+"*5*2' +/%((' *1) ' K4)' %B% ' /'+' B'#*!' (*)' /'&' 0'5*' /*2' %' B2') '10' "#'6'5;"2<*&*1)

?9' 4)' ' +% ' 41)"' "4!' /%)' ŒB /"+" ; 4.*(*' *5*2' +/%((' K4)' %B% ' /'+' B'#*!' +%5'10' #"2') /*' <%4+*" "#'#"21'<%)'"1!' <%4+*) /' /*)')"' <"& &')' %64()*2 ' %16' B /"+"*5*2' +/%((' &%22 ' /*2) /%)' '+' 6'5"2<*6' <" & &'))*) /' %64()*2

??' [' 0%'1!' *' /%5*' /*%26') /%)' ')' /%) / -**1' +%'6' - ') /*&' "#' "(6') '& *!;' /"4' +/%()' ; R"64≠ 1")' #"2+B*%2') / +*(#!' -4)' +/%()' K*2#"2&' 41)"' ' '!) /*' "26') /'1*' "%) / +' *4)

?C' 4)' ' +% ' 41)"' "4!' B*%2' 1")' %)

'+' K2"#')%-(*' #"2') /**') /%)' "1*' "#') / ' &*& ' -*2+' +/"4(6' K*2'+/!' %16' 1")' 3 ') / ' B /"(*' 7HP -"6 ' +/"4(6' -*' <%+)' '1)"' /*((

? ' 16' '#') / ' 2'0/)' /%16' "##*16') /**!' <4)' ')' "##!' %16' <%+)' & ' #2" &') /**' ' #"2' ')' '+' K2"#')%-(*' #"2') /**') /%)' "1*' "#') / ' &*& -*2+' +/"4(6' K*2'+/!' %16' 1")' 3 ') / ' B /"(*' -"6 ' +/"4(6' -*' <%+)' '1)"' /*((

?A')' /%) /' -**1' +%'6!' ' /"+"*5*2' +/%((' *1) ' K4)' %B% ' /'+' B'#*!' (*)' /'&' 0'5*' /*2' %' B2') '10' "#'6'5;"2<*&*1)

?9' 4)' ' +% ' 41)"' "4!' /%)' ŒB /"+" ; 4.*(*' *5*2' +/%((' K4)' %B% ' /'+' B'#*!' +%5'10' #"2') /*' <%4+*" "#'#"21'<%)'"1!' <%4+*) /' /*)')"' <"& &')' %64()*2 ' %16' B /"+"*5*2' +/%((' &%22 ' /*2) /%)' '+' 6'5"2<*6' <" & &'))*) /' %64()*2

??' [' 0%'1!' *' /%5*' /*%26') /%)' ')' /%) / -**1' +%'6' - ') /*&' "#' "(6') '& *!;' /"4' +/%()' ; R"64≠ 1")' #"2+B*%2') / +*(#!' -4)' +/%()' K*2#"2&' 41)"' ' '!) /*' "26') /'1*' "%) / +' *4)

?C' 4)' ' +% ' 41)"' "4!' B*%2' 1")' %)

3' 4BB4 5 43' 54' 56 8)' 5625' 34' 21> % 1 ' 4>' 456 >' 74> 6 B' 123' ; ' 211 B52; A ' 54' 8)' 7 564 5'+ 5 1 ' 23@' 162> 59 ' +' 3& 4/+

3' @ ' @415> 3 ' 4 %' 56 ' 1> ; ' 23@' 62>)' B>4: 43' 62@' ; 3' 82@ ' %4>' B 1 3 2>9' @282? ' 43A9)' 23@' ;2> ' > 5 5 5 43)' ' 7 6 16' 8 ?65' ; ' @43 ' 7 564 5' 2' 162> 52; A ' 8 3@)' 4>' 2' ; >456 >A9' 6 2>5' ≟ & 5' 6> 5' >? ' > 1431 A 25 43' 4 %' 8 3@)' 23@' 2' 31 > ' @ D > ' 4 %' ; 3?' > 3 5 @' 54' 4 >' 4%% 3@ @' ;>456 >' g' 23@' 5625)' 345' 43A9' 7 6 > ' B>4B >59' ' 1431 >3 @)' ; 5' 3' : >9' 12 ' 3' 7 6 16' 4 >' 3 ?6; 4 >' 148 BA2 3 '5625' 6 ' '2??> : @' %+' &)3 ** +

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' T' &' 3/' %&)3 3' / '* 0,' 3 Ć %' 5; 9' > ?65' 9 ' 3 32>' 56 .' 12 ' 56 ' 54' 4 %% 3@' %+' -4 ((≠ ' : >9' 7 ' 823 74 A@' 143 35' 54' % >' 56 ' 84 5' B2 3 % A' 4B >25 43)' 4>' : 3' 54' A4 ' 2' A 8 ;)' %' 3 1 2>9)' 54' 2: ' 6 ' A % .' 4' : >9' ?44@' 6> 5 23' 7 A# ;@ ' 6 ' A 5 ' 23@' B2 43)' 23@' B2>5' 7 56' 7625 : >' ' @ 2> 5 54' 6 8)' >256%A' 5623' %4>% 5' 6 ' 64B ' 4 %' : >A2 5 3?' 62BB 3 ' ' 5 00# >' 2: 4 >- ' CB> 43 ' 6 > ' 2> ' 6 ?6A9' % ? >25 : ' 23@ 2A2>8 3?)' ; 5' 345' 8 4> ' 5623' 56 ' 4112 43' @ 8 23@ @' : >9' 43' 8 5' 3@ > 523@' 5625' 56 ' 9 '54' ; ' BA 1< @' 4 5' ' 56 ' 9 ' 4 %' 143D 1 B 1 31 '2 5625' 56 ' 623@' 54' ; ' 1 5' 4 %%' ' 56 ' 623@' 4 %' : 4A 31' 23@' : 3? 231 '.' 5625')' 56 ' B2 43 ' 2> ' *' 4 ' 16 1< @' 23@ ; @ @)' A 5' 56 ' 143 %A 15' 14 5' 7625' 5' 829 ' -+ *% $ +

L/' ' 3 3' 4 0' &, ' Q 1 R' ' 5' CC : ' / ' ! % ' ' 74>@ ' 2>)' 345' 2 ' ; %4>)' H 5' 6256' ; 3' 2 @' 54' 56 8' 4 %' 4A@)-' ; 5 43A9' H' 5' 6256' ; 3' 2 @.-' 54' 345 '5625' 56 ' 72 ' 345' 2' B> 1 B5' ? : 3' ; 9' 4 ' 54' @ : 8>1 ' 56 >' 7 :)' ; 5' 43A9' 2' B >8 43' 3' 48 ' 12 .' ' 255' C C ' L ' %+' 3& 4/+' 843?' 56 ' * 7 ' 23@ 6 256 3)' ; 5' 84> ' B2>5 1 A2>A9' 2 843?' 56 ' A255 >)' 56 ' B47 >' 4 %' @ : 4>1 ' 72 ' 12>> @' 54' 2' ?> 25' C5 35)' 23@' C >1 @' 7 56' 56 ' 84 5 12B> 1 4 ' 23@' 7 2354 3' 1> A59 ' 5' 72 ' % ' 5 8 ' %4>' 2' 54B' 54' ; ' B 5' 54' 56 ' 31> 2 3?' ; 2>A 2> 5 2 23@' 5' 72 ' 2' 52 < 74>569' 4 %' 56 ' 43' 4 %' # 4@' 8 A %' 54' 523@ B' 2 ' 56 ' % 3@ >' 23@' >4D 5 154>' 4 %' 56 ' 84 5' 7 2<' 23@' 6 ABA 'B2>5' %%' 4 >' B 1 ' 114>@D 3?A9' '6 > ' @ 1A2>)' 3' 56 ' 84 5' B4 5 : '5 > 8)' 5625' 56 ' 43A9' A D ? 5 8 25 ' 12 ' 4 %' @ : 4>1 ' '2@ A5 >9.' 23@' 56 ' 62)' ; 9' 56 ' CB > D 31 ' 4 %' 2?)' ; 3' %4 3@' 54' ; ' 2' 84 5' 7 ' 23@' 2A 52>9' B>4: 43)' 34' A ' 143@ 1 : '54' 56 ' 62BB 3 '5623' 54' 56 ' : >5 ' 4 %' 56 ' B 1 ' -+ *% $ +

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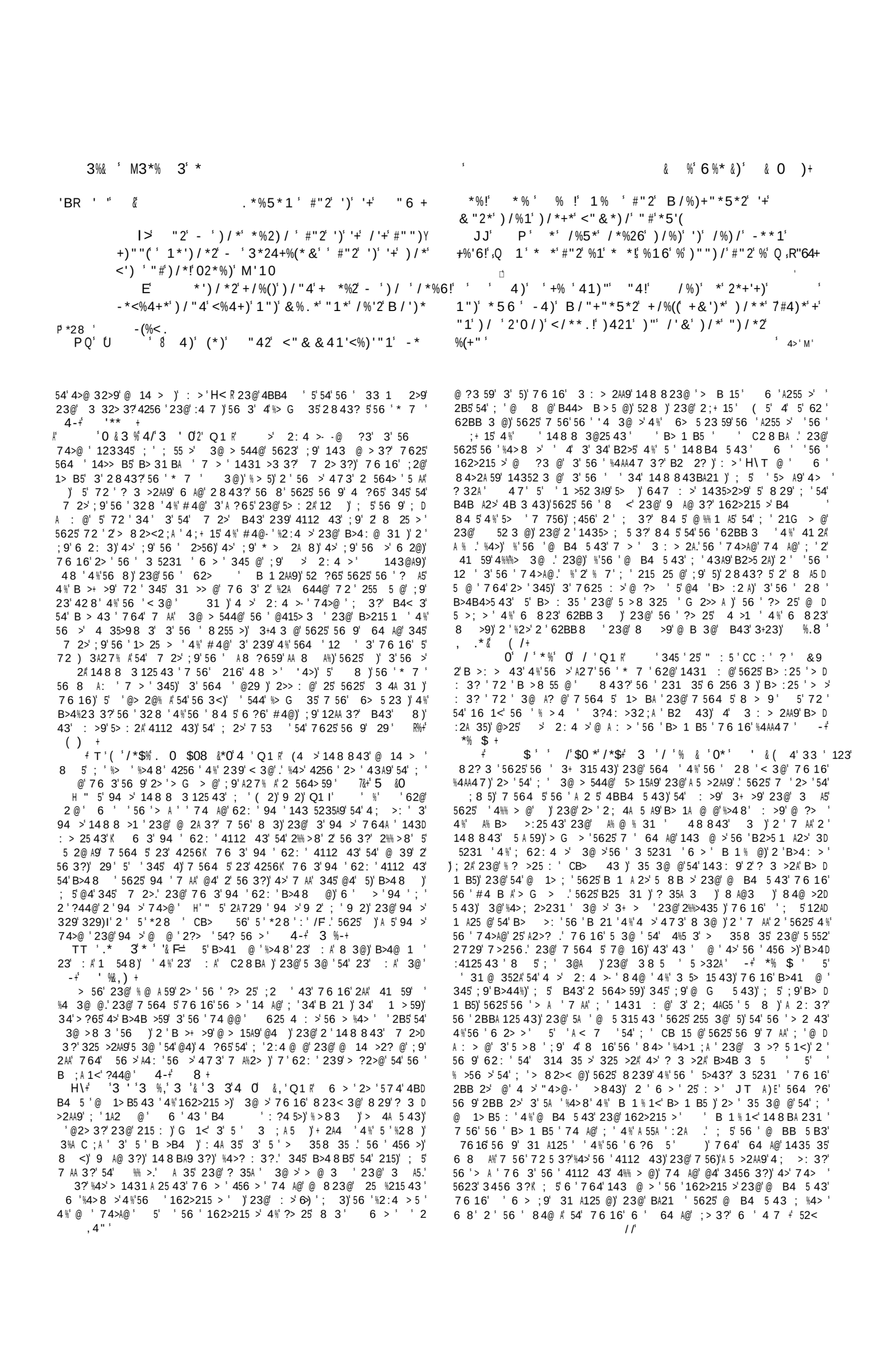

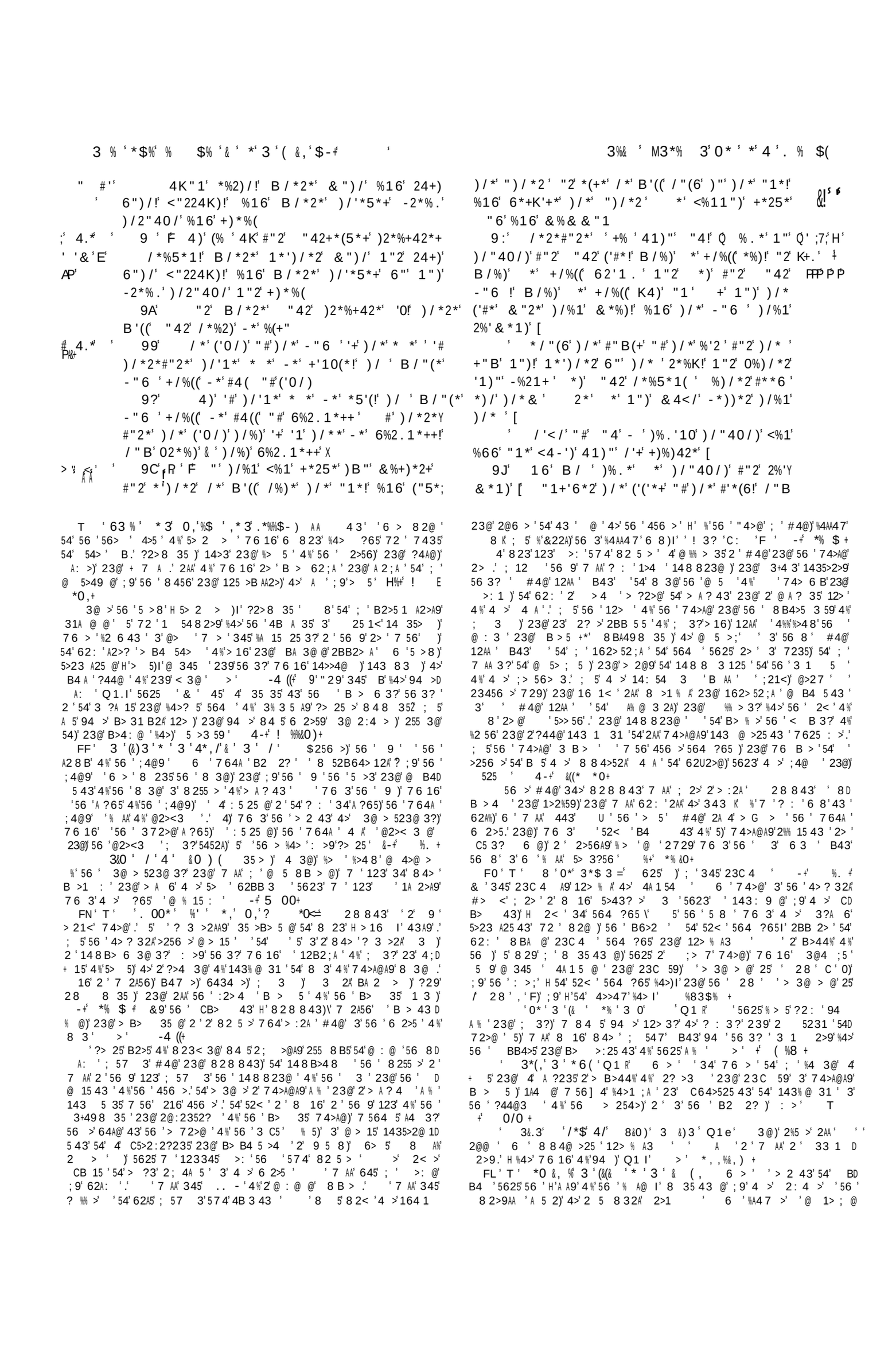

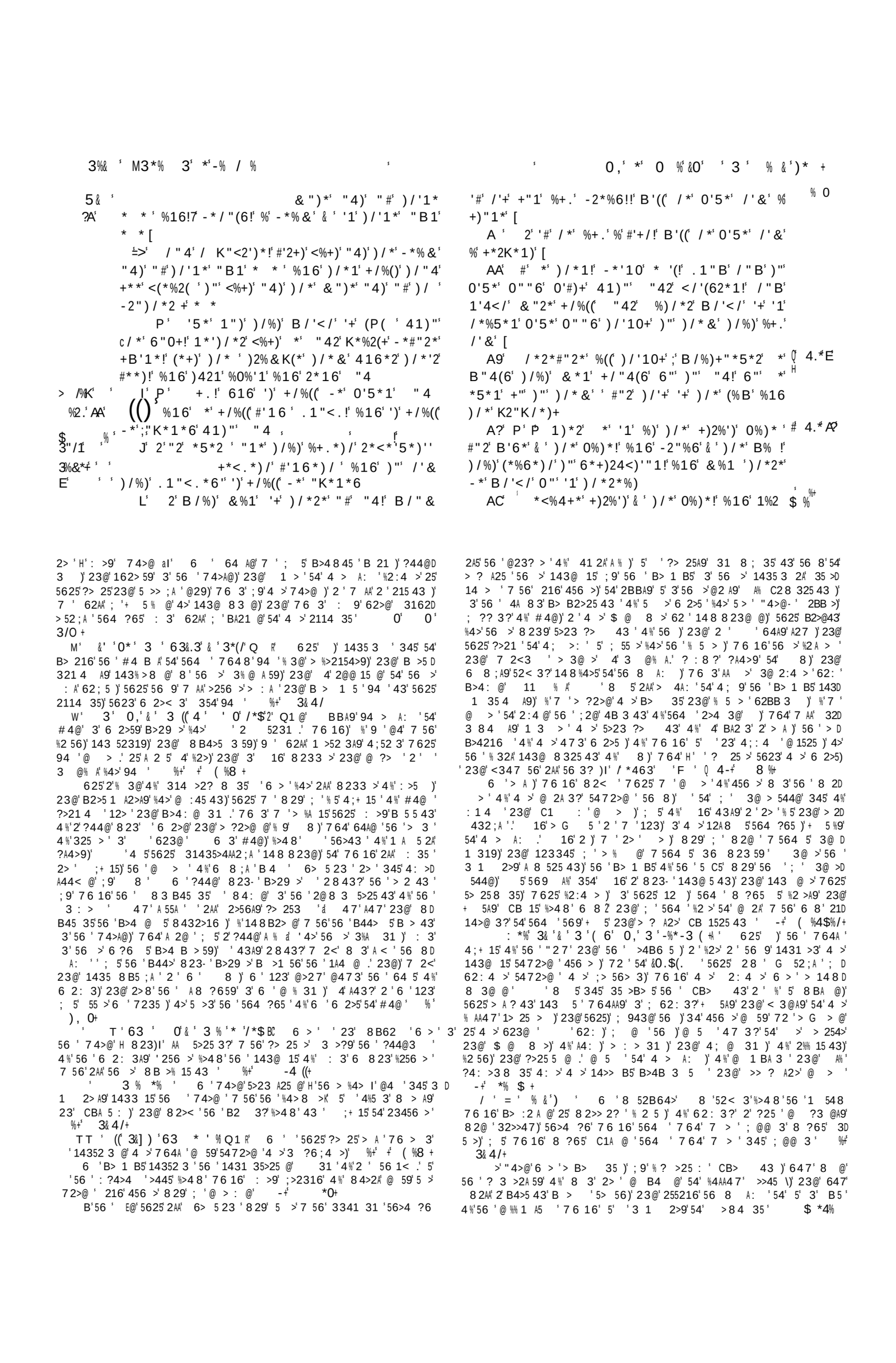

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9:' 16')/*' 2%'1' 6*+<*16*6! %16')/*'
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#"416*6'4K"1' %' 2"<.
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-*' (' .*1*6' 41)"' %' #"'('+/' &%1! B/'</ -4'()'
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16')/*' 2%'1' 6*+<*16*6! %16')/*'
#(""6+' <%&*! %16')/*' B'16+' -(*B! %16' -*%)'
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9J 16')' <%&*)"' K%++!7 B/*1' 3*+4+' /%6
*16*6')/*+*' +% '10+! Z)/*' K*"K(*' B*2*' %+' Q %2.''
)"1'+/*6' %)' /'+'6"<)2'1*' P (4.7 +@
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)/"2') ! %16'1")' %+')/*' +<2'-*+

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29)' 4%' ; 3?' @ 1 @' %>48' 56 '729' 54' A %)' ;9' 56 ' @ ?3 3?'
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G 2AA9' %2A)' 23@' > 845 '%>48'4 >' 2: 4 >-'5> '8 23 3?'K 56 '
43)' 5A 25' 2'B > 43' 764' '431 ' 3' 2'B 1 A 2>' 3 E' > ? 3 >25 '123'
3 : >' 1 2 '54';' 4.' 56 '45A >)' 5625' 2'B > 43' 764' '345'%) 0 E
% '123'@4' 3456 3?'5A 25' '?44@' %+' 3& 4/+
F/' *' ' %/' *0 'Q1 A' 5' '345'56 ';2>' B>4% 43' *%' 56 '
5 216 3?' 4%' 9' #4 B A' 5625' 62AA' 12>>9' 239' 823' 54' 6 2: 3)' ; 5'
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B4>5')' 162B': ' ' -+' 5 00+
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2>' B2>5 1 A2>A9' 8 35 43 @' ;9' 8' 3' 56 ';? 3 3 3?'4%' ' CD
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8 <3 '23@'>?65 4 3)' 8 1% A3)' B >59)' 23@' B 21 2;A D
3)' B25 31 ' 3@ >' B > 1 @=)' 23@' %% > 3? '%4>' > ?65 4 3 '
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FF)' F '5 0/'6&((/' *' '&O' 3 ', /'Q1)R' 239' 7 AA' 29'
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FW' T '3 '(**, '. N' 3' 56 '6 AA9' 14 35>9' 4%'* @ 2' 56 '%A44@'
7 > ' C5> 8 A9' : 4A 35
O '0,')% '6 '3 ' ((' * '& +N' 'A: A9' 8 ;A 8' 4%'56 '> 3'
7 6 16' 7 AA' 43 '@29' 4: >76 A8' 56 ' 362BB9' 823)' 764' 5> %' 54'
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+ 15 ' 6 ' 84>2A 59' '52 ?65' 72 ' 56 ' B > 5)' 56 ' 4 3@ 5)' 56 '
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'?L ' '3 '&O)' $ 3*%& /N' 56 >' 5 216 > '4%' 8 8>2A 59 A 2@

-8%& '% & 3' & A' , $)3 %+

?A' B"2+/'KK*6' /'&!' +% '10!' '6%40/)*2 '+' *5*1' 1"B' 6*%6' /4)' <"&*' %16' (% ') / ' /%16' 4K"1' /*2!' %16' +/*' +/%((('5*

AL' 16' 3*+4+' %2"+*!' %16' #"((" B*6' /'&! %16' *' ,&,' /'+' 6'+<'K(*+' ; 7

9 ' P' 16!' -*/"(6!' %' B"&%1!' B/'</' B%+' 6'+*%+*6' B')/' %1' '++4*' "#' -(""6')B*(5*' *%2+!' <%&*' -*/'16' 5 ' %16')"4</*6')/*' /*&' "#' /'+' 0%2&*1)

9A' "2' +/*' +%'6' B')/'1' /*2+*(#' #' ' &% ' -4)')"4</' /'+' 0%2&*1)!' ' +/%((' -*' B/"(*'

99' 4)' 3*+4+')421*6' /'&' %-"4)!' %16' B/*1' /*'+%B' /*2!' /*' +%'6' %40/)*2!' -*' "# 0""6' <"&#"2)' 7!)/' ' #%')/' /%)/' &%6*')/**' B/"(*' 16')/*' B"&%1' B%+' &%6*' B/"(*' #2"&')/%)' /"42

9?' 16' B/*1' 3*+4+' <%&*' '1)"')/*' 24Y (*2 +' /"4+*!' %16' +%B')/*' &'1+)2*(+' %16')/*' K*"K(*' &%.'10' %' 1"'+*!

9C' *' +%'6' 41)"')/*&' '5*' K(%<*' #"2')/*' &%'6' '+' 1")' 6*%6!' -4)' +(**K*)(' ' 16')/*' '(%40/*6' /'&')"' +<"21

9:' 4)' B/*1')/*' K*"K(*' B*2*' K4)' #"2)/!' /*' B*1)' '1!' %16')"" ./*2' - ')/*' /%16!' %16')/*' &%'6' %2"+*

9E' 16' (')/*' #%&*' /*2*"#' B*1)' %-2"%6 '1)"' % ')/%)' (%16' ' =

9I' ' 16' B/*1' 3*+4+' 6*K%2)*6')/*1<*!' 1"2!)B"' -('16' &*1' #"((" B*6' /'&!' <2 '10!' %16' +% '10!' 3*$' +"1' "#' %5'6!' /%5*' &*2<' "#) 4+

9J' 16' B/*1' /*' B%+' <"&*' '1)"')/*' /"4+*!')/*' -('16' &*1' <%&*')"' /'&' %16' 3*+4+' +%')/' 41)"')/*&' *('*5*' *')/%)' %&' %-(*)"' 6"')/'+' [/* ' +%'6' 4'()"' /'&' *%! "#6

9L' /*#)')"4</*6' /*')/*'2' * *+!' +% '10!' <<"26'10')"' "42' #%')/' -*' ')' 41)"' "& ? ' 16')/*'2' * *+' B*2*' "K*1*6%16' 3*+4+' +)2%')(' </%20*6')/*&!' +% '10' **' 3 '1"' &%1' .1"B' & +

?A' 4)')/* !' B/*1')/* ' B*2*' 6*K%2)*6!' +K2*%6' %-2"%6' /'+' #%&*' '1' %(( )/%)' <"41)2

?9' #' 7P +')/* ' B*1)' "4)!' -*/"(6!')/* ' > 4.*'' S -2"40/)')"' /'&'%'64&-' &%1' K"++*++*6' B')/' /N %' 6*5'(

??' 16' B/*1')/*' 6*5'(' B%+' <%+)' ")!)/*' 64&-' +K%.*' %16')/*' &4()')46*+' &%25*(Y (*6!' +% '10')' B%+' 1*5*2' +"' +**1' '1' +2%*(?C' 4)')/*' /%2'+**+' +%'6!' * <%+)*)/' "4)' 6*5'(+')/2"40/')/*' K2'1<*' "#)/*' 6%5'(+' $ ++

'1A2B' A2'

14 31 A' 2BB4 35 @'54' B > 35 3@'56 ' 1431 >3 ' 4%'56 ' 932?4? .' ; 5'56 ' 328 ' 72 ' 48 563 ' ? : 3'54' 2AA' 56 ' 8 32; > ' 4%' 56 ' 14 31 A' ' 2><' : ' L0.' "3< : ' N/' $ *4% +

& ' ' 0' 00, ,'GN' 9' ';9'56 '5 8 '@ 2@)I'2 '2BB 2> %>48 56 ' B2>2AA A' B2 2?'4%' 5' 2><)' 162B' : 'F)' 23@' %>48'56 '' G A' 4%'56 ' 54>9' %+' 3& 4/+

' T' 0,' *$.3 ,' 3' 3 ' * '3& ') % 0 *' 6 ' 72 ' 8 8 D @ 25 A9' 82@' 764A ' 43'54 16 3?' 5)' 2114>@ 3?'54' 2><' : ' FJ)' 23@' " < ' : ' NN)' 76 > ' 8 4> ' B255 A2> ' 2> ' > A25 @' 7O+' %. + ' 3' 3 N /%)' #2'10*' "# '+' 0%2&*1)!' B/'</')/*' 3*B+ 7 > ' 148 823@ @'54' 7 2>' %4>' 2' @ 5 315 43' ' 8 ; ' C: ' L'.' 5' CC ' ' 6 ' 748 23)' 5' ' B>4 ; 2 ; A)' 72 ' 3 ; A ' 5625' 6 >' @ 5 8B >' 72 ' 2' A ?2A' 3 A 233)' 23@' 56 > %4> ' 128 ' ; 6 3@' 8' ;9' 5 2A56 ' 0' 03*- +

' T' 3/' & 3' 3 3' , ' 3 ' 63*(+N 69' ; A %'5625' ' 14 A@' @4' 56)' 72 ' 56 ' 4112 43' 4%' 9' 6 2A 3?' 56 ' &B' 5 00+

F ' T' 3' &0 % (' 0,' 3' - *-('Q1 R' 6 ' 8 3 5> A ' 4>' B B > ' BA29 3?' 84 >3% A' 5 3)' 23@'56 ' B 4BA ' 8 2< 3?' A2 8 3525 43 ' 7 56' 56 >' :4 1)' 2114>@ 3?' 54' 56 ' 1 543A' 4%'56 ' * 7 ' 7 6 3' B> B2> 3?' %4>' 56 ' % 3 >2A' 4%' 2' B > 43' @ 42 @' -+' %. +

FN' T & '0*', ,' 3$' (- (8+N ' 345' 4' @ B2>5 @)' 5625' 6 ' 62AA' 345' > 5 >3' 2?2 3.' 6 >' @ 256' 62AA' 345' 1435 3 ' 2 ; 4: ' 56 ' B21 ' 4%' 23' 4>@ 32>9' A B)' 23@' 6 ' 62AA)' 2 ' %>4 8 ' 2' A B)' 272<' ' %>4 8 ' 5' >' ! *0,+

FM' 0,' 3' '3 % * N' 9' /*' #%&*' /*2*"#G B%+' +"' 02*%)! -*<%4+*' /*2' 6*%)/' B%+' K4-('<.(' .1"B1!')/*' &'1+)2*(+' B*2*' %+Y +*&-(*6! *5*2 ' K2*K%2%)'"1' B%+' &%6*' #"2)/*' #41*2%(!)/*' %++*2)'"1' "#"42' "26' B%+')2*%)*6' B')/' +<"21! %16')/*' K*"K(*' B*2*' <")%P 5'1<*6' "#/*2%<)4%(6*<*%+*'

FW' T' 3 ' *0' * ' '&, N' 6 ' '56 ' % > 5'5 8 '5625'7 ' > 2@'764 ' 4 ; A ?25 43' 56 >' 12>32A' 23@' 28 ; 5 4 ' : 7 ' A @' 56 8 ' 54' 4%' 56 ' 5 5A ' ; 3?' ? : 3' 54' *)' C1 B5' ; 9' 56 ' 23? A' # 2 ; > A' ; ')%4> ' ' ; >56)' " < ' ' F' &9' 56 ' 5 5A ' ' 2 ' 21<347 A @? @' 54' ; ' 56 ' 26)' 4>' 6> 5)' 764' 2 ' 2AA' * 7 ' 2?> @E' 72 ' 54' ; ' 56 ' 43' 4%' 2 , @)' 162B' CC ' =)' 23@' *463' : 'NF' 3@' ; 9' ; 3?' 56 ' 43' 4%' 2: @)' * ' 62@' 2' > ?65' 54' 56 ' 5 5A ' 4%' 2)' ' 28' : ' /)' A ' -+' %. +

' 0,' 3 &%' / ' 6 %' ;%- 0 ,;2N *' +/"4(6' B*((' "-+*25*' "# /"B' &%1 ' 5%2'"4+' .'16+' B*2*')/*' &'2%<(*+' K*2#"2&*6' - '"42' %5'"42' *' &%6*')/*' -('16')'" +**!;)/*' 6*%#)'" /*%2!)/*' 64&-

54' B 2<.' ' 1A 23 @' A B >)' 82@' 56 ' 82 8 @' 764A)' 42 5' 5 @ : A)' 23@' 6 2A @' : >9' 6 823' A 2A2@9'.' ' 5 AA @'56 ' 2)' >2 @'56 ' @ 2@)' Q1 ' 3@)' 3@ >' 48 ' 4%'56 ' < 3@ ' ' 8 >2D 1A ' 7 > ' 4' 3 8 >4)' 5625' 56 9' C1 @'56 ' 8' 4%' 2AA' 76 16' 2> ' > 14>@ @' 3' 56 ' ; > 7' 1> B5 >)' 2 ' B >%4>8 @' ; 9' # 4@-' >4D B6 5 ' & @ ' 564 ' @ 5 315A9' 5>23 8 55 @' @4 7 3' 54')' 56 > ' 2> ' 3 8 >4 ' 456 >' 215 ' 4%' B >325 >2A' B4 7 >)' 7 6 16' 2> ' > % >> @' 54' 3' ? 3 >2A' 5 >8 ' 6 ' %% 15 ' 544' 4%' 6> 5- ' 8 >21 A43 ' 35 >B4D 5 43' 7 > ' 4%5 3)' 2 ' 3' 56 ' B> 35' 3 5231)' 8 8 @ 25 i' 23@' 56 9' 7 > ' A2 5 3?' 6 ' 8 >21A)' 2?2 3)' 7 >))' 3' : >9' 8 239' 3 5231)' 7>4 ?65' 3' 56 ' 84 5' B ; A 1<' 8233 >' i' 23@)' 3' ? 3 >2A)' 56 9' 62@' 2' ; 3 % 1 2A' 5 3@ 319.' ; 3?' X75 ' 4%' ?44@3 ' 2 ' AA' 2 ' 4%' B47 >' 6)' 3' 56 ' 23@' 8 239' 456 >' B2>5 1 A2>)' 56 >' 3252> ' 23@' 162>215 >' ' 16)' 2 ' 54' B>4: ' 56 ' 1431A 43' 4%' 5' *463)' %463' ' /)E' H' 5625' ' 72 ' 56 ' 6> 5)' 56 ' Z8' 4%' #4@ I' 4-+ 6.* +

` T' ' 3 ' 0*' 0' 80*6' & +N' ' 345 ' 25' 62B' : .' N H# T' ' 6 ' 0 ' % *' 0' &0' % (+N 6 ' 2@ 8 >25 43' 4%' 56 ' B 4BA ' ' C5> 8 A9' 325 >2A.' %4>' 343 ' 4%' 56 >' >4B6 5)' 345' : 3' ' 4)' 62@' : >' G 2AA @' 6> 5' 3' 56 ' B4 7 >' 23@' %21 A 59' 4%' 74><' ' 3?' 8 >21A ' 2= ' 2> ' %4 >' 8 >21A)' 16 %A9' 4%' 56 ' 6 ?6 5' < 3@)' 7>4 ?65' 8 ' 56 ' 14 , ' 4%' 43 ' 2%5 >3445A>' 56 ' 3% >8 ' 748 23.' 56 ' >2 3?' 4%' *2 >2 -' @2 ?65 >' %>4 8 ' 56 ' @ 2@.' 56 ' 1 > ' 4%' 56 ' 574' ; A 3@' 8 3'.' 23@' 56 ' + 15 3?' 4%' 56 ' : A' B > 5' %+' &)3 ** +

LN' T' ! ' 8' *$' , '&(' 3%*$)3' 3' -%& ' * ' 3O, '&(+N 6 ' 5' 2BB 2>)' 5625' 564 ' 764' ; 6 A@' 4 >' 2: 4 > ' 8 >21A)' @ @' 345' @ 39' 56 >' B >%4> 8 231)' ; 5)' 43' @ 1435>2>9)' 2@ 8 55 @' 5.' 564 ?6' 56 9' 74 A@' 345' B43' 56 >' : @ 31 '= 8 ;>21 ' 56 ' #4 B A)' ; 12 ' 56 9' 1431 : @' 56 ' 54' ; ' 1185>2>9' 54' 56 ' 4 2 1<' "27)'

54' B 2<.' ' 1A 23 @' A B >)' 82@' 56 ' 82 8 @' 764A)' 42 5' 5 @ : A)' 23@' 6 2A @' : >9' 6 823' A 2A2@9'.' ' 5 AA @'56 ' 2)' >2 @'56 ' @ 2@)' Q1 ' 3@)' 3@ >' 48 ' 4%'56 ' < 3@ ' ' 8 >2D 1A ' 7 > ' 4' 3 8 >4)' 5625' 56 9' C1 @'56 ' 8' 4%' 2AA' 76 16' 2> ' > 14>@ @' 3' 56 ' ; > 7' 1> B5 >)' 2 ' B >%4>8 @' ; 9' # 4@-' >4D B6 5 ' & @ ' 564 ' @ 5 315A9' 5>23 8 55 @' @4 7 3' 54')' 56 > ' 2> ' 3 8 >4 ' 456 >' 215 ' 4%' B >325 >2A' B4 7 >)' 7 6 16' 2> ' > % >> @' 54' 3' ? 3 >2A' 5 >8 ' 6 ' %% 15 ' 544' 4%' 6> 5- ' 8 >21 A43 ' 35 >B4D 5 43' 7 > ' 4%5 3)' 2 ' 3' 56 ' B> 35' 3 5231)' 8 8 @ 25 i' 23@' 56 9' 7 > ' A2 5 3?' 6 ' 8 >21A)' 2?2 3)' 7 >))' 3' : >9' 8 239' 3 5231)' 7>4 ?65' 3' 56 ' 84 5' B ; A 1<' 8233 >' i' 23@)' 3' ? 3 >2A)' 56 9' 62@' 2' ; 3 % 1 2A' 5 3@ 319.' ; 3?' X75 ' 4%' ?44@3 ' 2 ' AA' 2 ' 4%' B47 >' 6)' 3' 56 ' 23@' 8 239' 456 >' B2>5 1 A2>)' 56 >' 3252> ' 23@' 162>215 >' ' 16)' 2 ' 54' B>4: ' 56 ' 1431A 43' 4%' 5' *463)' %463' ' /)E' H' 5625' ' 72 ' 56 ' 6> 5)' 56 ' Z8' 4%' #4@ I' 4-+ 6.* +

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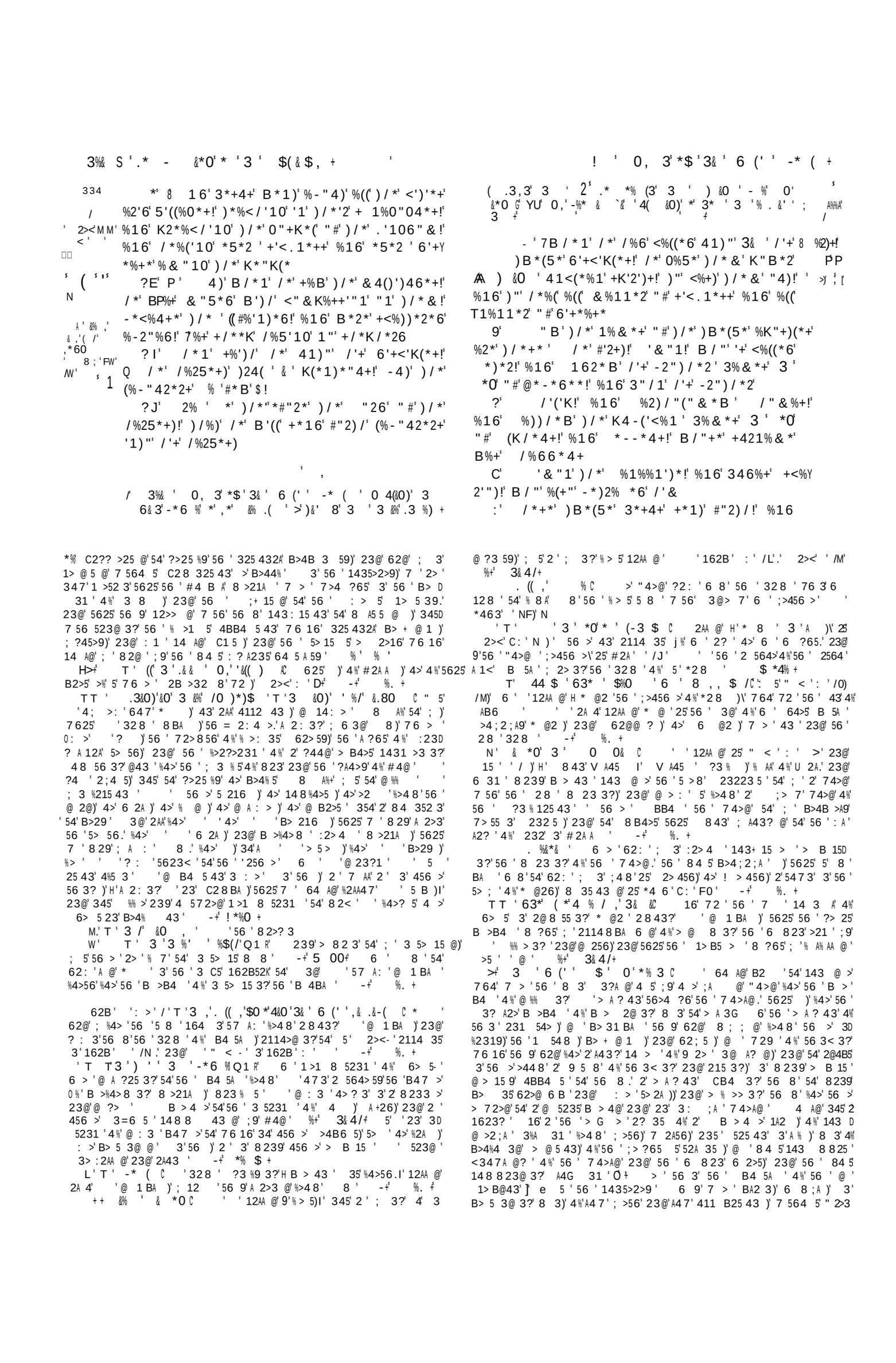
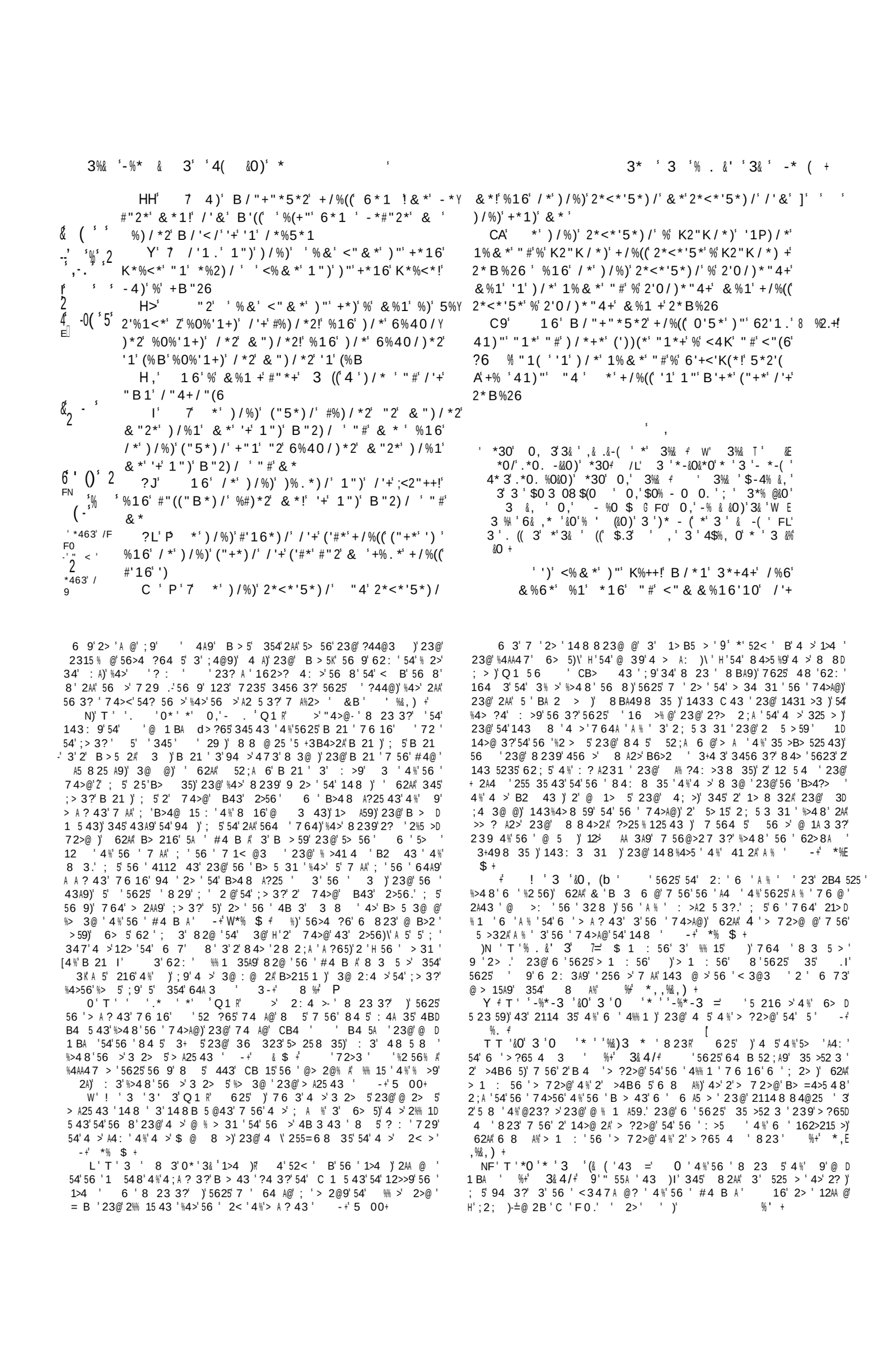
LN' T' ! ' 8' *$' , '&(' 3%*$)3' 3' -%& ' * ' 3O, '&(+N 6 ' 5' 2BB 2>)' 5625' 564 ' 764' ; 6 A@' 4 >' 2: 4 > ' 8 >21A)' @ @' 345' @ 39' 56 >' B >%4> 8 231)' ; 5)' 43' @ 1435>2>9)' 2@ 8 55 @' 5.' 564 ?6' 56 9' 74 A@' 345' B43' 56 >' : @ 31 '= 8 ;>21 ' 56 ' #4 B A)' ; 12 ' 56 9' 1431 : @' 56 ' 54' ; ' 1185>2>9' 54' 56 ' 4 2 1<' "27)'

A : ' 72 ' 5 >32A' 6 9' 56 > %4 ' 1435 35 @' 56 8 A: ' 7 56' 2 D >5 3?)' 5625' 56 ' 8 >21A ' 4%' 6> 5' 23@' ' B4 5A ' 8 5' ; ' 2 1> ; @' 54' 82? 12A' 23@' @ 2 ; 4A 12A' 2? 319' & 5' 56 ' 4B 3 43' 4%' 56 >- ' B>4: ' 148 BA 5 A9' 5625' 56 9' 21<347 A @? @' 56 ' 8 >21A ' 56 8 A: '54' 62: ' ; 3' > 2AA9' B >%4> 8 @' 3' 5> 56)' 56 ' 64 5 A 59' 4%' 56 ' * 7 6' 325 43' 54' 6> 5 23 59' %>48' 56 ' %' > 5)' 143% >8 ' 56 ' 5> 56' 4%' 56 ' #4 B A' 8 >21A ' 2@' 56 ' * 7 ' ; 3' 3 : > 2AA9' 4>' : 3' ? 3 >2AA9' 17 : >5 @' ; 9' 56 8)' 56 ' 35 1<' 8 ?65' 2>? .' 7 56' 48 ' 2BB 2>231 ' 4%' B>4 ; 2 ; A 59)' 25' 56 ' %215 ' 62@' ; 3' 3 : 35 @





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*R<*K)' /*' #'2+)' -'16')/*' +)2"10' &%1'[%16'
)/*1' /*' B'((' +K"'(' /'+' /"4+* ;
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%16' /*')/%)' 0%)/*2*)/' 1")' B')/' & *' +<%))*2 '
*)/' %-2"%6
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' 0'5*1'41)"' & *1 ' -4)')/*' -(%+K/*& ') &0 '
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&*1
?9 16' B/'"+"*5*2' +K*%.*)/' %' B"26' %'
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/'& ' -4)' B/"+"*5*2' +K*%.*)/' %0%'1+)')/*'
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1*')/*2' '1')/'+' B"2(6!' 1*')/*2' '1')/*' %(,'
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-' 3& ' #24')
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&*1)

4' ! ' 3 '& '0*' 8' 'Q1 R' 'B>4: >; 2A' CB> 43' 5' '<34A 8 ' ' 29)'5625' 6' 764' @4 '345'2 5'23456 >' 3' 2' 143D 5 5)' '1 >52 3A9' %2:4 >2;A '54' 6 ' 3 8 9Z' 143 G 35A9' 9'12 5D 3?'4 5'@ :A ' 6 7 '5625' '28' 2523-'@ 1A2> @' 3 89' >'! ' ,+ >' 56 ' CB> 43' 8 29' 2BBA9' 54' 56 ' * 7 K 6 ' 5625' 7 AA' 345' +4 3' 7 5A' ' 3' 5 6 '?> 25' 7 7 <)' 8 5' ; ' A44< @' B43' 2 ' 2?2 3=' ' >' +' (%&. +
4(-3 /5) &0 ' 3 ' ! *(/' # 4 R' 6 16' 143 5 @' 3' 56 >' 82A 1 4 A9' 2 1> ; 3?' 56 ' 8 >21A ' 7>4 ?65' 54' & AU ; ;)' 23@' 345' 54' 56 ' B > 5' 4%' #4@' - ' %. +' 6 ' 62>)' 764' 2> '56 '162>? @' 7 56' 56 '? A5' 4%' ;A2 B6 8 3?' 2?2 3 5'56 ' 4A9' #64 5)' : >9' 7 AA' <3 7' 5625' 56 ' 8 >21A '56 9' 62@' 3' 14 A@' 345' ; '2114 35 @' %4>' 3' 2' 325 >2A' 729'.' 9 5' 16' 72 '56 >' BA 3' 23@' >2? '2?2 3 5'56 '#4 B A)' 5625' 56 9' 164 '>256 >' 54' 8B 5 '56 8' 54' 56 ' @ :A)' 5623' 54' 21<347A @?' 56 ' : 3 ' 623@)' 76 16' 72 ' 4' : ;A ' 3' 5 8)' 5625' 5' 14 A@' 345'\; ' 8 @' ; 9' 239' 764' 7 > ' 345' 7 A% AA9' ;A 3@' > ' %(0,+' 6 ' 7 ' '5625' 56 '1> 8 ' 72 ' 43% 3>2' 4A A9' 23@' C1A : A9' 54' 564 ' 62>)' 764' 255> ; 5 @' 8 >21A ' 7>4 ?65' ; 9' 56 ' B > 5' 4%' #4@' 54' 56 ' 2? 319' 4%' : A' B > 5 ' 31)' 56 > %4>)' 8 >21A ' 62: ' A43?' 31 ' 1 2 @)' 23@' 56 ' ;A2 B6 89' 3' 5 '% AA' C5 35'2?23@' 56 > ' '56 > %4> '34'+ 5'?>4 3@' %4>' 2BB> 6 3 43 ' 43' 56 ' ;+ 15' 54' ; ' 35 >52 3 @' ; 9' B 4 ' 23@' 1> B 4 ' 8 3@ ' - ' *% $ +
5 AA' 56 > ' 2> ' 48 ' 3 ' 4%' 2' A < ' 325 >)' 76 16' 829' ; ' 148D 8 55 @' ; 9')' 23@' 76 16' ; 3?' 148 8 55 @' 829' B>4: ' 34' A ' @23D ? >4 ' 54' 564 ' 764' 2> ' ? A59' 4%' 56 8)' 5623' 5625' 3' @ @' B>4: ' 54' 56 ' 62> ' 6 > 54%4> ' %' 56 ' 325 > ' 8 5' B 12AA9' ; ' > 1<43 @' 2B4 52 9' %>48' 56 ' 6> 523'> A ? 43)' 2%5 >' 62: 3?' ; 3' 143: 31 @' 4%' 5 '5> 56)' 23@' 82@' B2>52< > ' 4%' 5 ' B>48)' 23@' 2B4 52 9' %>48' 56 '5> 56' 23@' B > 59' 4%' 56 ' #4 B A' %4>' 56 ' 2< '4%' 48 ' 74>A@A9' % 2>)' 4>' 4%' 48 ' B> 35' 64B ' 23@' 2@:2352? ' 4-+' 8+ %' 56 ' 3' 2?2 3 5'56 ' 4A9' #64 5' ; ' 4%' 4' 6 ?6' 2' 325 >)' 23@' *' 3B2>@432)' 56 3' 8 5' 2AA' 2BB>4216 ' 54' 5' ; ' : >9' @> 2@% A.' 16' 2 ' B>4%23 ' 14%% 3?' 25' > A ? 43)' 23@' 56 ' 4A9' B > 5' 4%' #4@)' 76 16' @7 AA ' 3' ?44@' 8 3.' B >: > ' 3% @ A 59' 345D 7 56 523@ 3?' 2AA' > 2 432;A ' : @ 31 '+' 4; 5 3219' 3' 2' 3% A' 23@' : 14 ' 14 > .' 33 3?' 2?2 3 5' 56 ' 1A 2>' 143: 15 43' 4%' 4 >' 143D 1 31 ' 6 ' 2> ' 2AA' 4%% 31 ' 4%' 2' %A2?>235' 162>215 >)' 23@' 4%' ?> 25' B>4: 4125 43' 3' 56 ' ?65' 4%' #4@.' 23@)' %' 56 9' ; 'A43?' 143D 5 3 @)' 7 '<347' 345' 647' 443' #4@' 829' 7 56@>27' ' ?>21 '%>48')' 23@' %% >' ' 54' ; ' H' 62>@ 3 @' 56>4 ?6' 56 ' @ 1 5% A3 ' 4%' 3 \' 4-+' &((* . +
HJ# 63* * & %' - 8 3' O') &0 ' 3 ' *0' * ' 0' &' 3 (('4 ' *%)&' & ' ?2 3 5' 6> 5)' 143 @ > @' 8 > A9' 2 ' 2' 823.' 12AA 3?' 8 ' %4>' 3 5231 ' 2' @ 1 : >)' 2' ?A 5543)' 2' 7 3 ; ; ; >.' 5625

564 ?6' 2' ?> :4 ' 3)' 9 5' ; 3?' A ?65' 3' 148 B2> 43)' 829' 56 ' 8 4> ' 2 A9' ; ' %4>? : 3.' ; 5' H' 764 4 : >' Q1 I' > ' % ' (0,+
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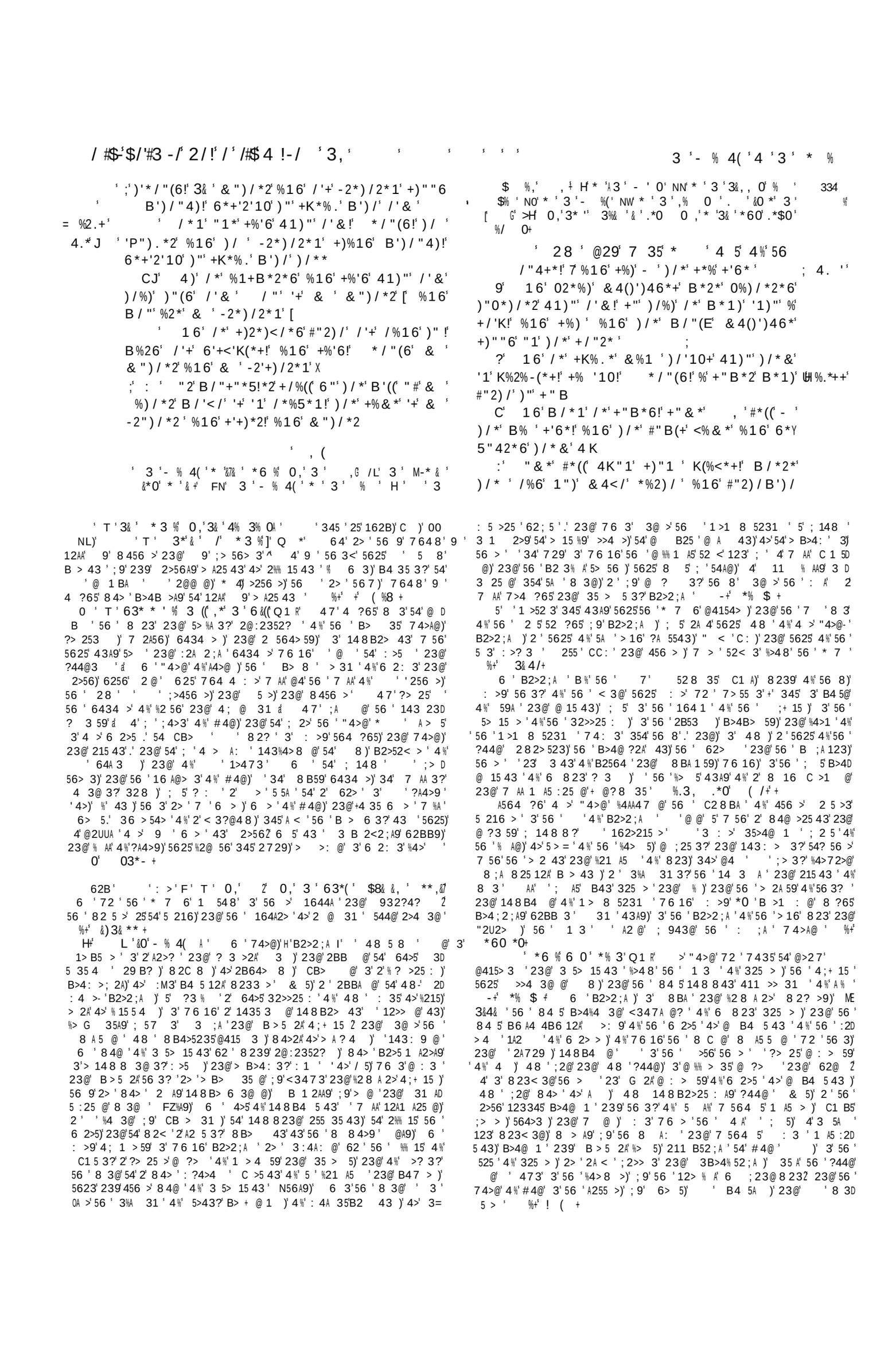

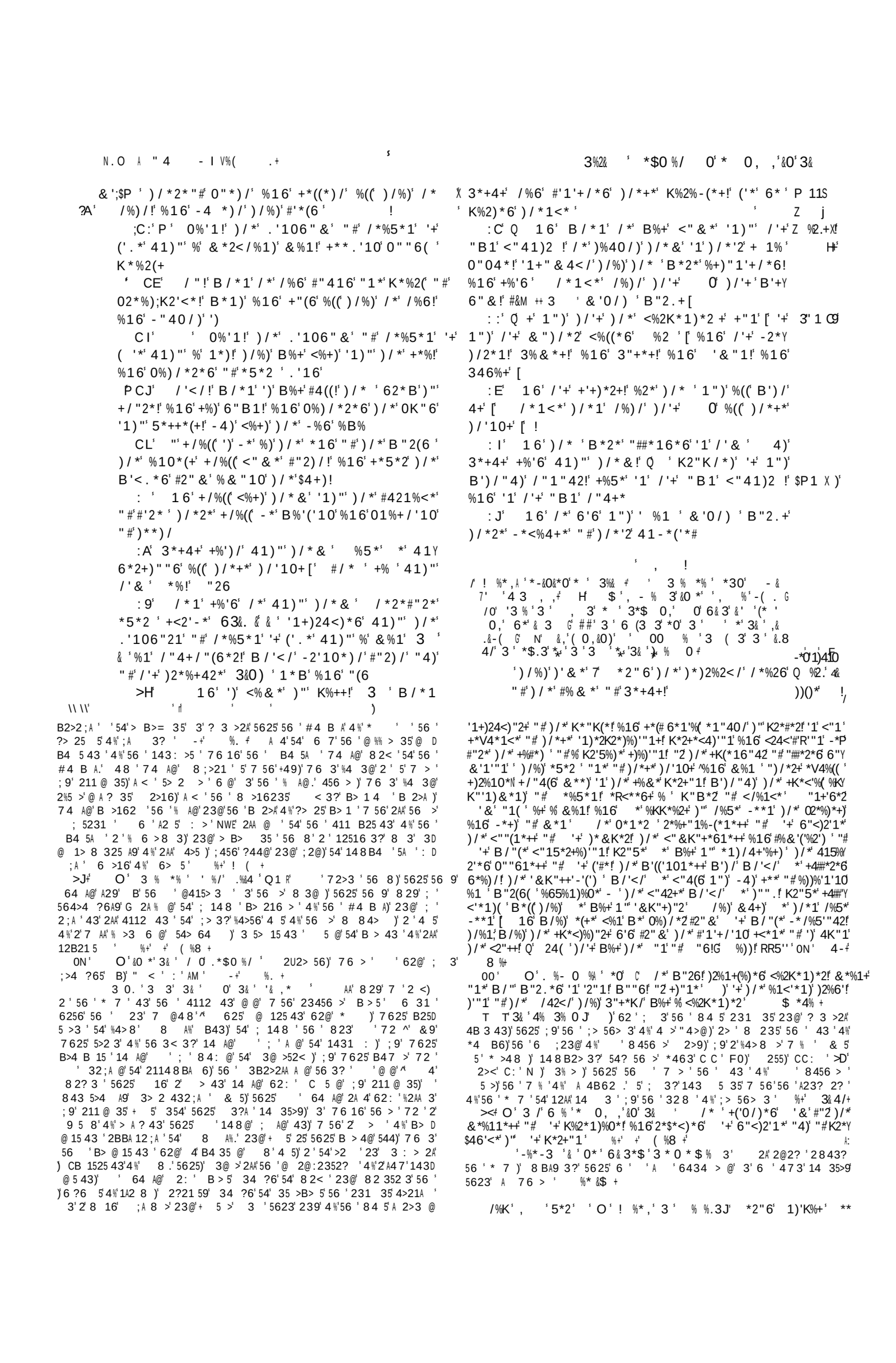

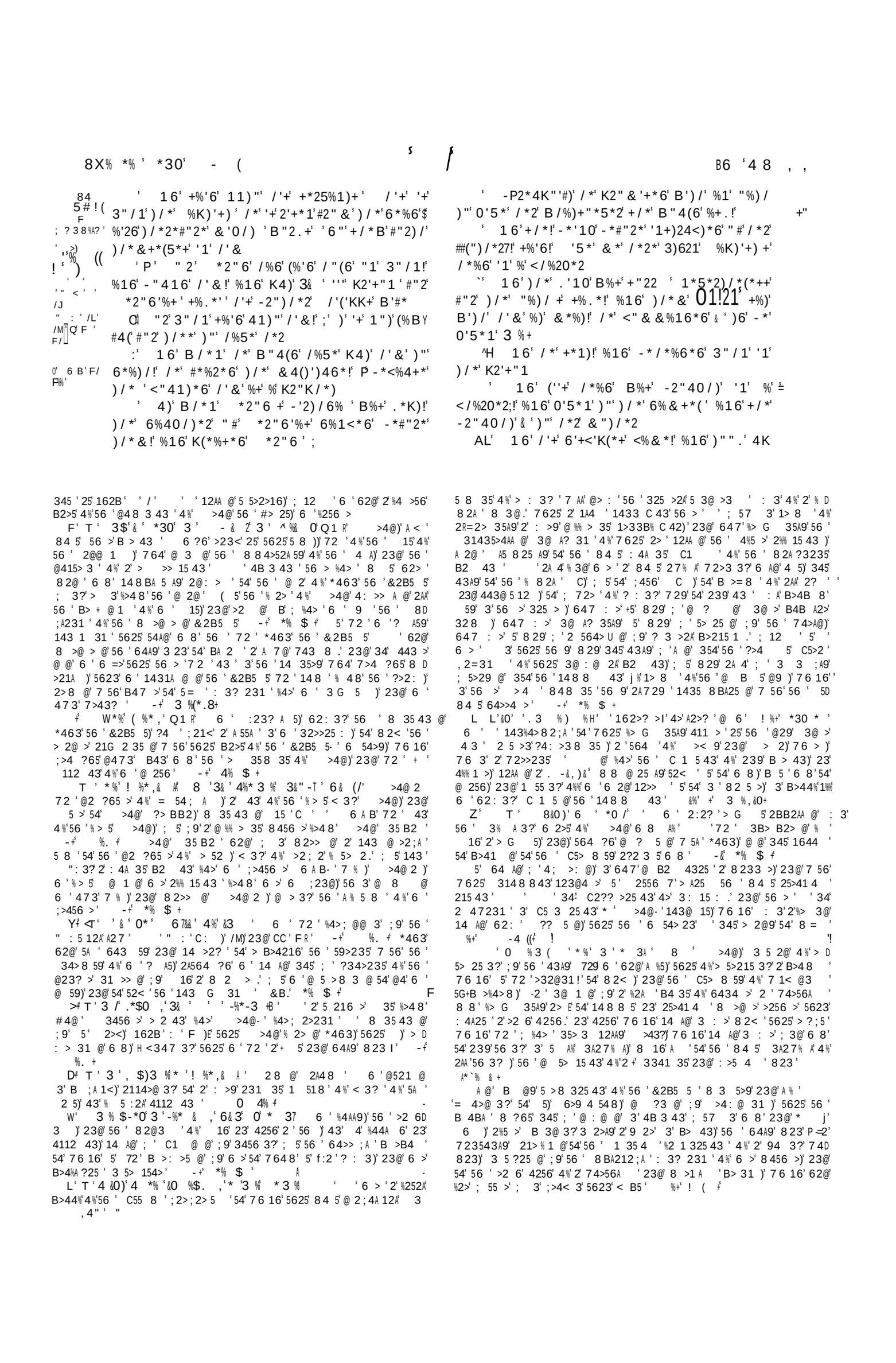

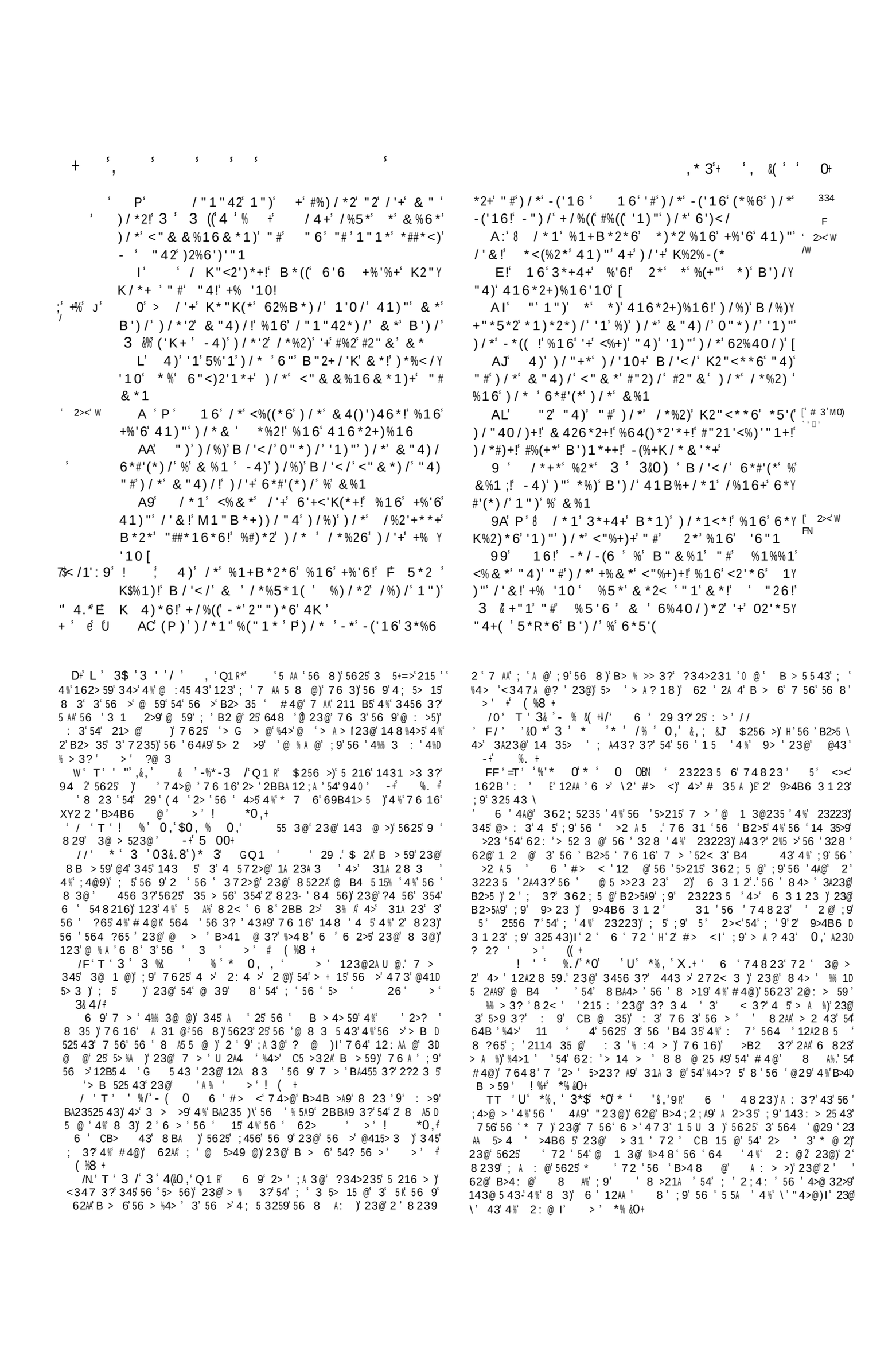

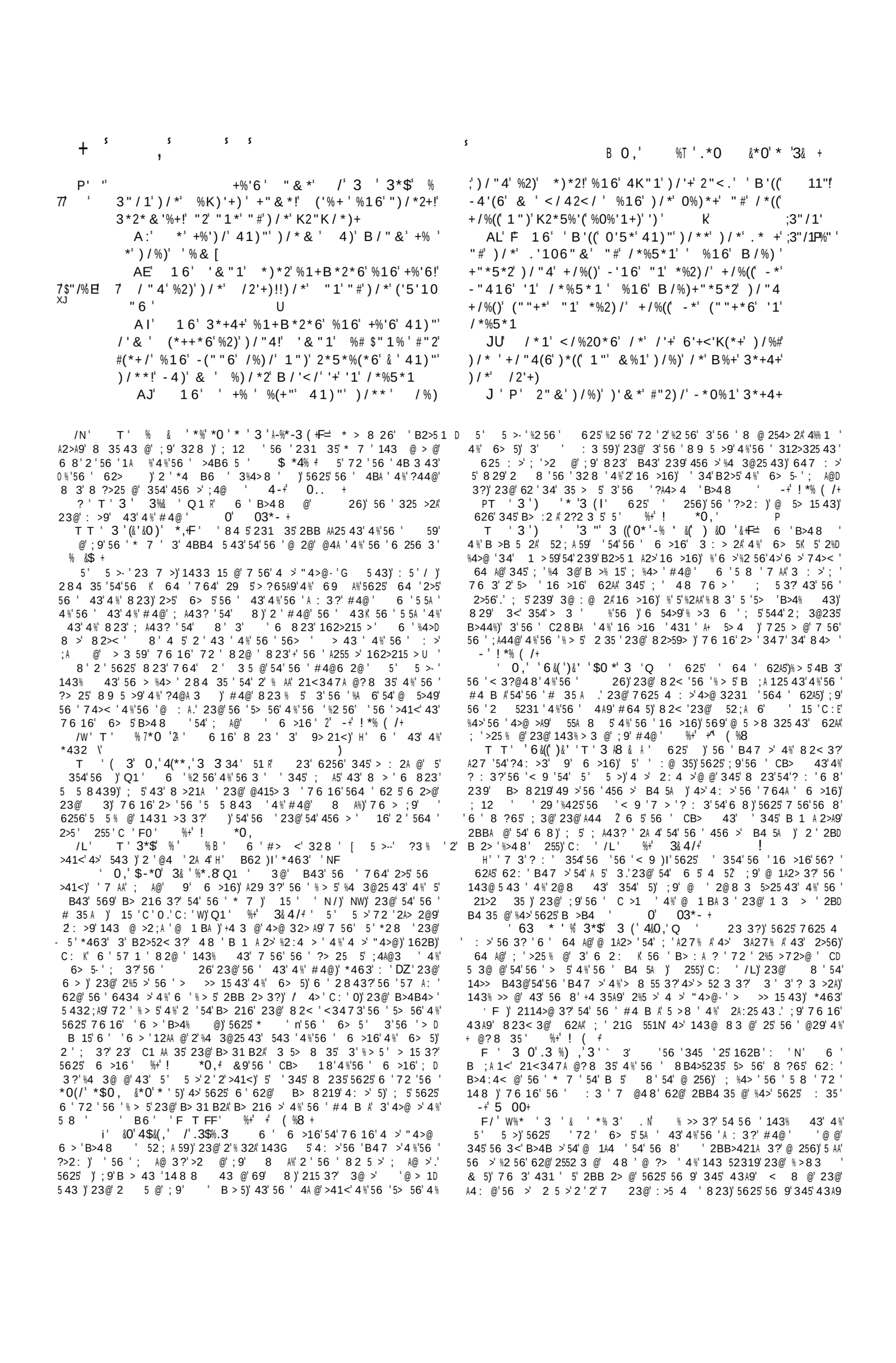

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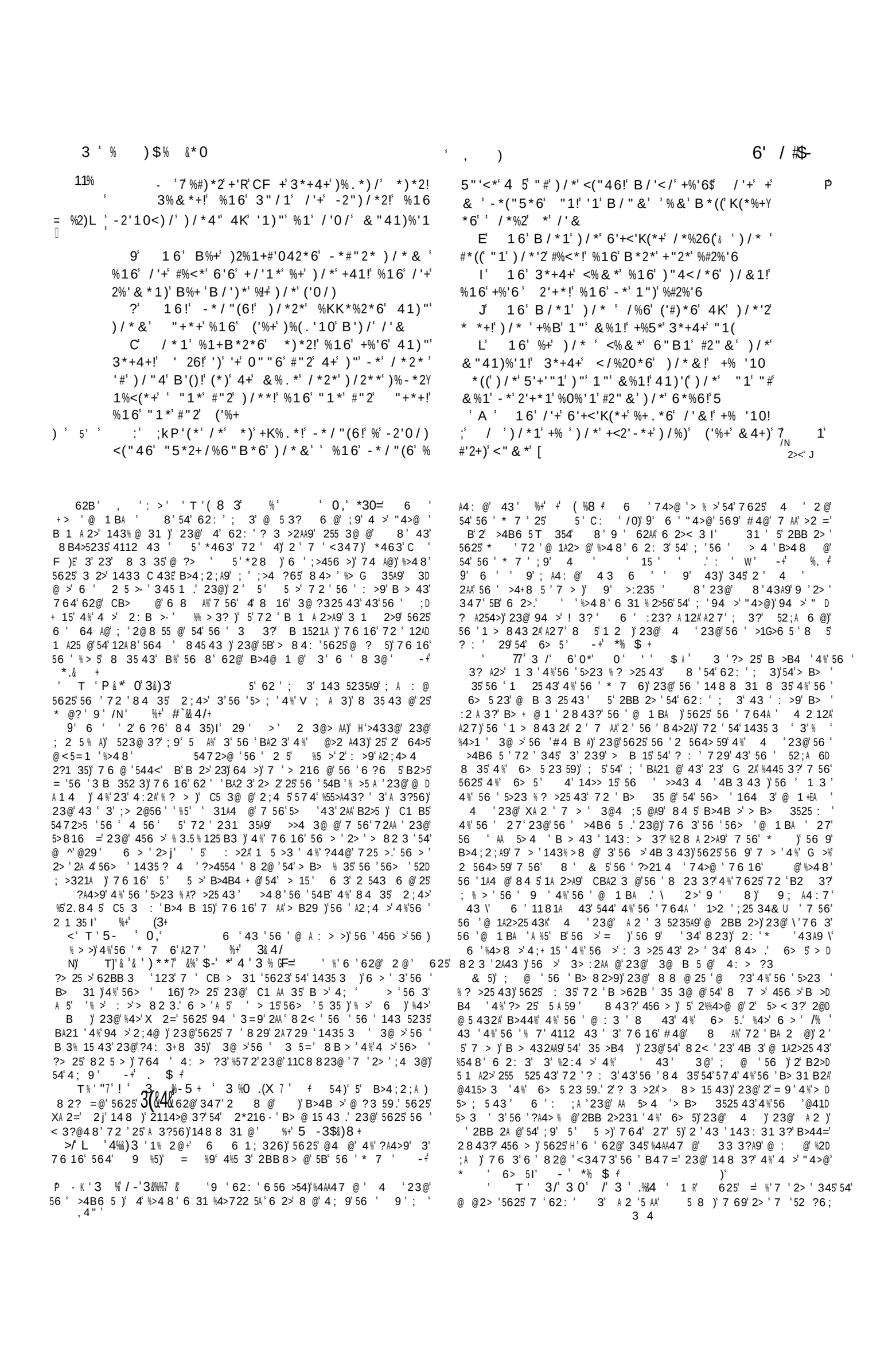

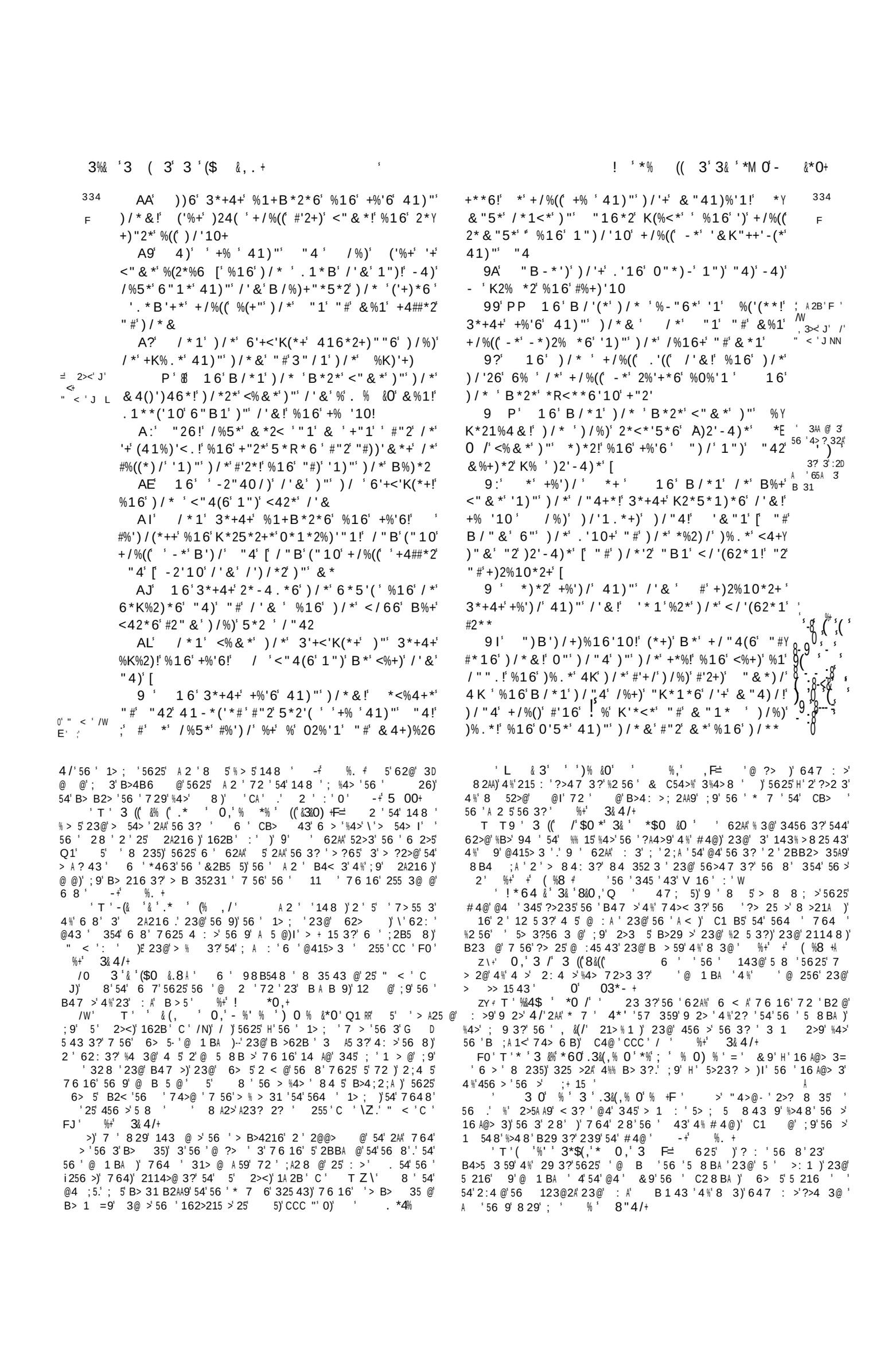

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' ' ' ' 0,' *'3 '4 - & ,' 6&3' 3 '4 - & 'Q1R*' > '56 '4: >D
76 A8 3?' 7 56' 12A28 5 ' '> B> 35 @.' 3' 2' 8233 >' %28 A 2>' 3'
1> B5 >)' ; 9' 8 8 > 43' 3' 725 > ' ' 'CA 'W.' C C 'F)' Q '
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BA 6 @'> B 15 3?'56 '574'@ 1BA ' 5'*28 '72 'B 5'54'@ 256'
; 9'56 '82A 1 '4%' >4@)' 15 'C ' /)' [R'23@' 5'*463' 72 ' 14 >? @'
23@' 8B> 43 @' ; 9'56 '14 31 A'25'* > 2A 8)' 15 ':-?A)' N)E 2%D
5 >72>@ ' ;23 6 @'< 54 56 ' A '4%' 2584)' $:' ' J)E' 23@)' 2 ' 62 '
2A729 ' ; 3' > B4>5 @' 3' @ ' 6 >> ' %% > @' 25'A2 5' 2' 84 5' 1> A'
@ 256' 0' 03*- +
+++++' f'& '0*' &0 ' *') 6 ' 8 BA9 3?' 5625' 56 ' 6434 > '23@' @ D
?> '4%' 62BB 3 '9' 3' & ' < 3?@48 I' 2> ' 345' 56 ' 43-'54'? :)'
3'5A ' 0 ' 3' 76 16'56 ' B4 5A ' BB4 @.' 5625' ' '@4 '345'
= : '56 8' 2; 4A 5 A9' 23@' 2>; 5>2> A9.' 345'A @' ; 9' B2>5 2A 59' 4>' > D
B 15' 4%' B > 43=' 4>' :23G 6 @' ; 9' 8B4>5 3 5)' 2 ' 2>56A9'
B> 31 ' 2> .' ; 5' 5625' ' ' A 8 5 @' 4/' 143 @ >25 43 '4%' G 59'
23@' 5> 15'+ 5 1)' %>48' 76 16' 5'123' 3 : >' ; ' 43> 5 35' 7 56'56 '
B >% 15 43 '4%' '325 > '54'@ B2>5' 0' 03*- +
6 ' CB> 43' 2>? ' 34'@ % 15' 3' 56 'B47 >'4%' 6> 5)' ; 5'
43A9' 2'B >% 15' 143%4> 8 59'54' ' '256 >- '7 AA ' %+' 3& 4/+
' T)4$' O' *' 3 ' *%' 63* '&' & '-% - % ,(' & 5'54' 564 '
B > 43)' 23@' 2114>@ 3?'54'564 'G 2A % 125 43 '76 16' #4@ 6256' 2B '
B4 35 @"' %+' +' (%8 +' : >9' 6> 523' 7 AA' 56 3' ; ' C2A5 @' 54'
2'6 ?6 >'@ ?> '4%' ;A '23@' ?A4>9)' 3' B>4B4>5 43' 2 ' ; ' 62 '@> 3<'
1% B >'4%' 6> 5- '1 B(' 2 '6 ' 6 8 A59)' 6 ' %% > 3?)' B25 31)'
23@' 8 <' @ B4 5 43)' 62: ' ;>4 ?65' 6 8' 54' 2' 3 2> >' 143%4>8 59

7 56' ; ' 2 5 >.' 4' 62AA' 6 ' ; '143 @ > @' 23@' BA21 @' 3 2 5'54'
8 ' 3' 62BB 3 ' 0' 03*- +
F0)' ' T ' '80*6' 3 ' 3 '-%%0. 'Q1RR' ('<347'5625)' 3'56 '
< 3?@48 '4%' 56 ' 74>A@)' 8 3' 5> : '28 ; 54 A9' 54' ? 5' @48 3 43'
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B47 >)' 62: ' 56 ' ?> 25 5' 6434 >' 23@' > B 15' B2 @' 54' 56 8' ; 9'
456 > ' &25' 28 43?' 943' 7 A' 62> ' 56 3? ' 4>@ > @' ; 9' 456 >'
8 2 > K' 6 '5625' @ > '54' ; ' ?> 25' 23@' 6434 >2 ; A ' 28 43?' 94)'
A 5' 6 8' <' 54' @ >: ' 6 ' 6434 >' ; 9' 8 <3 ' 23@' A47A 3 '.'
23@'A 5' 6 8' C >1 ' 6 ' B47 >)' 345' 3' @48 3 > 3?' 4: >' 239)' ; 5'
3' 2 5 3?' 23@' @4 3?' ?44@' 54' 2AA' %+' +' (%8 +
>' "4>@' 3' 56 ' 23 7 >' 29 '54' ' @ 1BA)' ' 2AA47 '4%' 34'
5> % ' 28 43?' 94 ' %4>' BA21 ' 4>' 525 43.' 34' A% 6' 4>' 28 ; 54 '
: 7 .' 2AA' 56 ' 18>5 35 43' 8 5' ; ' 764' 3 ((4 ' 84 5' 162> 52 ; A '
23@' 6 8 ; A)' 23@' 56 ' 84 5' @ A ? 35' 3' 6 '< 3@' >: 1 ' 54' 6 '
% AA47' 8 8 ; > '4%' 9' %28 A9' $.8 +
FL' T ' *')6 ' 5 '(& ' '% 0 * ' *%' 0/+%' 4' @ '%4>'56 '> '
= 5 8B5 43' 4%' 823< 3@' %+' +' (%8 +
T ' '% 0 * ' 6 ' CB> 43' B>4: '5625' 6> 5' %% > @' 3'
4 >' 5 2@.' 23@' ?2: ' 'A % ' 54' > @ 7 8' 823< 3@)' 764' 7 > ' ;D
+ 15' 54' @ 256)' 56 ' 72? '4%' 3
&%' 0/ ' '4>' 2AA' 8 3'.' %4>' 4'56 ' 6*%,' 9' 8239I'%> D
G 35A9' d 3 % ' '$48' '+' >' I 2' 23 'C 'F ' %+' 3& 4/+
'345 '25' 23 'C 'F'.' $48' %+' >+
3' 56)' 2 ' 7 AA' 2 ' 3' 3 35; > ' 456 >' B2 2? ' 76 16' A '
B> 2@' 56>4 ?6' :2> 4 ' B2>5 ' 4%' 56 ' 7' - 528 35)' 5' ' 2 '
BA2 3' 2 ' 74>@ ' 123' 82< ' 239' 56 3?)' 5625' 56 '@ 256' 4%' 6> 5' '
B>4B4 @' 54' '2 ' 4 >' 21> % 1 '23@' > 1431 A 25 43)' 4 >' 2543 8 35'
23@' > @ 8B5 43 ' 5' ' 345' B4 ;A ' Q >' 239' 43 ' 764' 143 @ > '
56 ' CB> 43 .' 54' 8 2=3 '5625' 6> 5-' @ 256' 72 ' 43A9' 2' 143 '
=% > 825 43' 4%' ' #4 B A)' 2' B255 >3' 4%' 2' 64A9' 23@' B25 35' %% > 3?'
4%' @ 256)' 23@' 2' 3 1 2>9' B> B2>25 43' 54' ' > >> 15 43)' ; 9'
76 16' ' ?2: ' ' 2' 1A 2>' B>44%' 4%' 2' > >> 15 43)')' 23@)' ; 9' 143 D
G 31 .' 4%' 5 >32A' A %)' 2 ' ; 9' ' @415> 3 ' ' 62 ' 6 7 @' 56 '
729' 54' 5' 6 ' 5' 'BA2 3' 5625' 6> 5-' @ 256' 72 ' 4 >' 21> % 1 '.'
; 9' 76 16' ' 8 235' 5A 25' #4@)' 35 3@ 3?' 54 > 1431 A '56 ' 74>A@' 54'
8 A%)' 23@' 54' 314 >2? ' 33 > ' 5B' > B 35' 23@' 5 >3' 54' 8 8))'
564 ?A>5' % 5' 54' 4%% >' 56 ' B2>@43' 4%' 3)' 54? 56 >' 7 56' 56 ' 456 >'
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; 456' 56 ' ? A5' 4%' 3)' 23@' ' 625> @' 4%' 5.' 23@' 9 5)' 7 56' 5625'
' A4: ' 4%' 33 > .' 23@' ' 148 B2 43' 5472>@ ' 56 8 ' -+
$%0 +
+' T ' 6' 4(&0 ,' 0(5' 2><' 162B' C' NME' 23@' 5' " < '
162B' C: ' 0E' 8 35 43' 43A9' 43 ' ; A 3@' 823)' 328 @' &2>5 8 '
5' '+ 4; 2; A ' 5625' 6 ' 72 ' 84> ' <3473)' 4>' 4%' 6 ?6 >' >23<' 5623'
56 ' 456 >.' 43' 76 16' 2114 35' 56 9' 8 35 43' 6 8' 43A9' B)'
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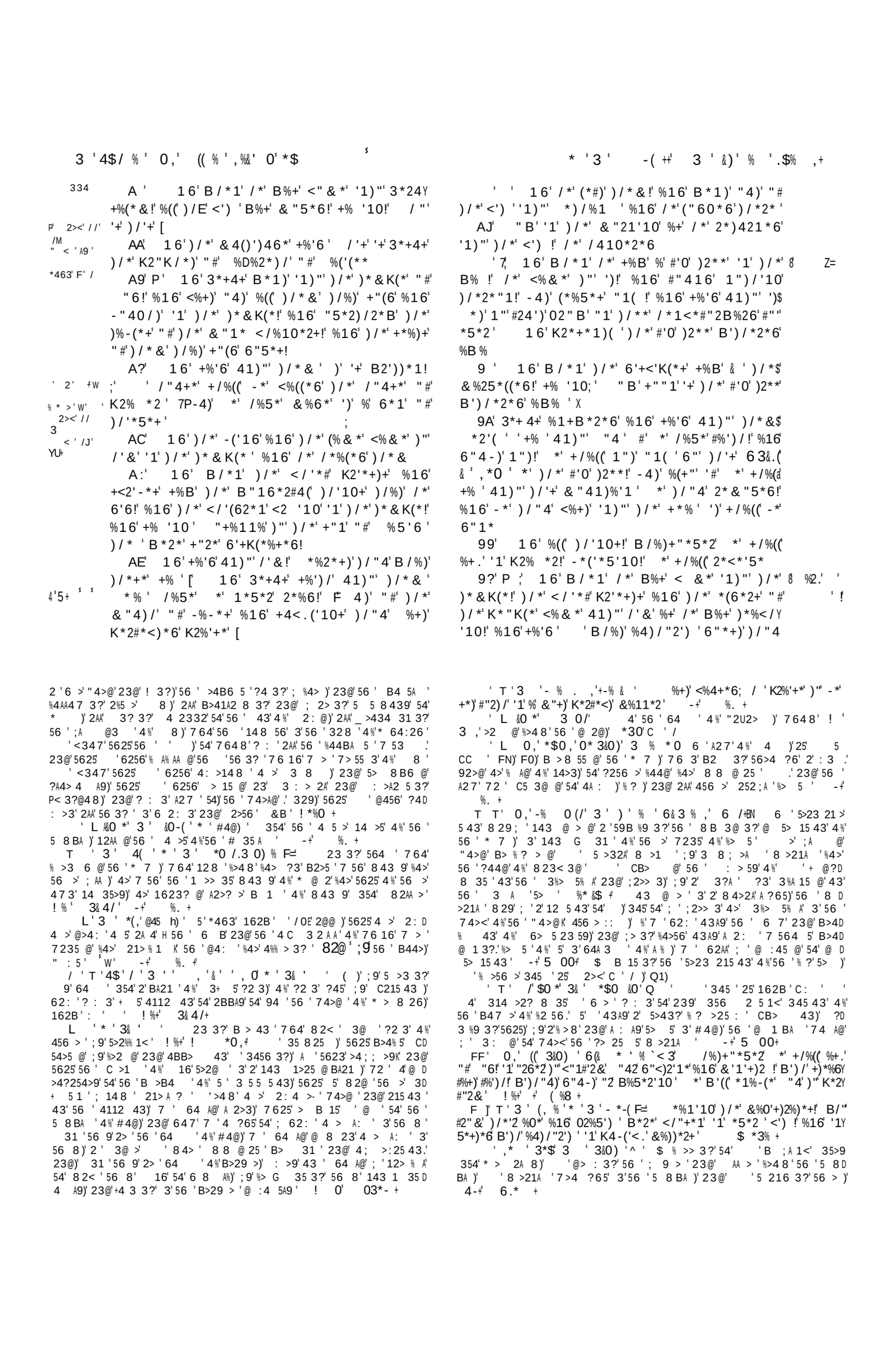
3*$' *0' * ' '&, &(4' 12AA' * 'H' 56 ' 43' %%' 2: @I
72 '54' 21<347A @? ' 8 '2 *6 ' 26 ' -+ 5 00

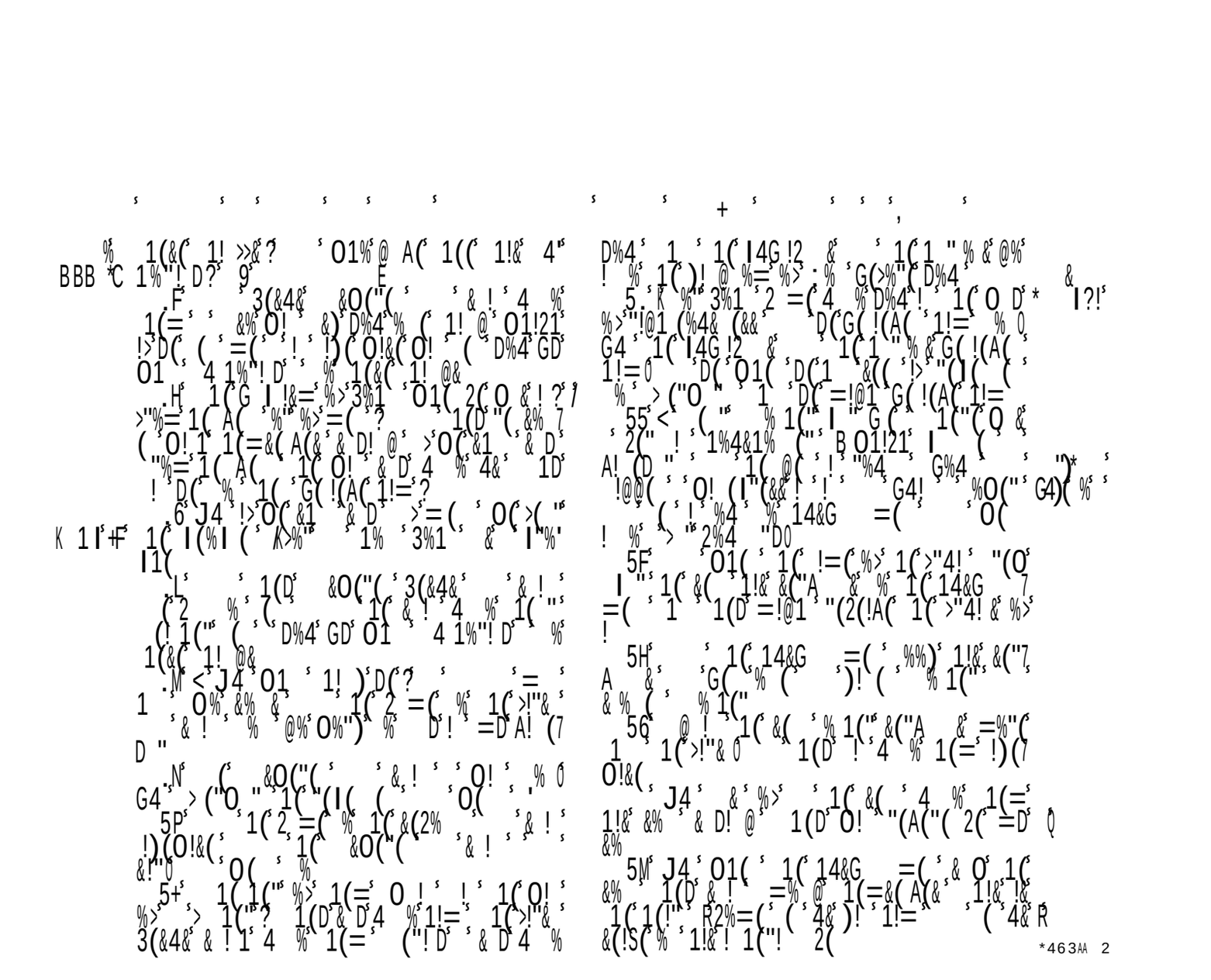
Painted by Schiavoni. *Engraved by H. Moses.*

CHRIST'S ENTRY INTO JERUSALEM.

Matthew xxi. v. 1-7.

Published by the Society for promoting Christian Knowledge June 1st 1826.





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TT ' 3/',&,'/ ' 0* ' 3 0' 4 (& ' '3& ' 6 2' 6 ' B4 35 @' 4 5' ' 2 ' 56 ' 6> 5 ' ' 162B ' ')' / /)' / N.' *463' ' FJ)' ' -+' %. +

FW ' T ' & 3 %' ((' '/ *$ ' 6 ' G 5 43' 4 %' 4 >' 2: 4 >)' 2 ' 5' 14 8 BA 5 A9' A 31 @' 23@' 143%4 3@ @' 56 ' 8 2A 1 4 ' > ; ' 23@' 62>)' 1435 2 3 3?' 2' 1> 5' 143 : 15 43' 23@' > B>44% 4 %' 56 >' 3D > 2 432 ;A ' 3 ; A %' AA' > + 15 3?' *463' 56 ' &2B5 5)' 4' 5' B4 35 @' 4 5' 56 ' > 2 432 ;A 3 ' 4 %' ' 645' > 5 >3 3?' 2' B4 5 : '23 7 >' 54' 56 >' 'G 5 43)' 31 ' 5' 72 ' : @ 35' 5625' 56 9' 7 64' ; A : @' 345' *463 @ ' & =5 5)' 7 64 8 ' 9 5' 56 9' @2> @' 345' CB> A9' @ 39' 54' ; ' 35' %>4 8 ' # 4@)' 7 4 A@' 8 16' A ' 62 : ' ; A : @' * - ' BA2 3' 2 >5 43' 4% ' 4 7 3' : 3 ' 2 564> 59 ' %+' +' (%8 +

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? / ' T ' 3 ' - '4(&. , 0 ' 0 , ' 3 ' 3 %(* ' : 3' B ;A 123 ' 23@' 62>D A45)' 564 ' 7 64 8 ' 94 ' 8 4 5' @ B ' 23@' 625)' > B 35' 23@' ; 14 8 ' 6> 5 23)' 7 6 A 5' 94 ' 4 ; 5 325 A9' 5' 94 > A: ' 2?2 3 5' 56 ' ?>2D 1 4 '5 >8 ' 4 %' 56 ' # 4 B A ' -+' 5 00+

>4%A ?25 'B > 43 ' 7 > ' 4 8 5 8 ' %% 1 35A9' 6 8 ;A '54' > B 35)' ; 5' 56 ' 62>)' 7 64' 62@' %2 A5 ' 2A 4)' 23@' ?> 25' 43)' 564 ?6' 345' 4' 123@2A4)' 62@' 7 562A' 4' 8 16' B> @ ' 23@' 6 ?6 8 3@ @3)' 5625' 56 9' 8 2? 3 @' 5' 8 4> ' 56 >' ; 3 '54' 5' 2 ' 1 3 4> ' 23@' 14>> 154> ' 4 : >' 2AA' 8 23< 3@)' 5623' 54' 143% ' 56 >' 4 7 3' 3)' 4>' 54' > B 35' 4 %' 56 8 ' > ' %(0 ,+

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0 ,'/ ' 6 3 0. '3 ,' 0' & FN 6 3' 9 ' 62@' 3' : 3' 56 B ;A 123 ' 23@' 8 4 5' : 1 4 ' B 4BA ' 7 >4 ?65' B43' ; 9' 6 ' B> 216D 3?)' 9 5' 56 ' 62@' 34' %% 15' B43' 94 ' > ' ! *0 ,

H+' T ' 63&.3' -(0 ,' ' '&0 / %, 6 > ' ' 34' 2AA ?4>9' 3' 1> BD 5 > ' 8 4> ' %> G 35' 4>' 8 4> ' ?3 % 1235)' 5623' 5625' 7 6 16' > B> 35 ' 56 ' 6 >16' 4 %' # 4@' 3@ >' 56 ' % ? > ' 4 %' 2' : 3 ' 4>' : 3 92>@' 0+' 03*- +' '345 ' 25' ' CCC ' L' .' ' : ' /)' F

T T ' ,&)) ,' ' 6&0 -% AJ 3' > 2' 56 9' 5 AA' @ ?' 56 >' 7 3)' B> '.' %4>' 56 9' %4> 8 ' 56 8' 3' 64AA4 7' BA21 ' @ ?' 3' 56 ' ?>4 3@)' 7 6 16' 56 9' A 3 ' 7 56' 8 2 43- ' 74><' &%' +' 3 %, &0

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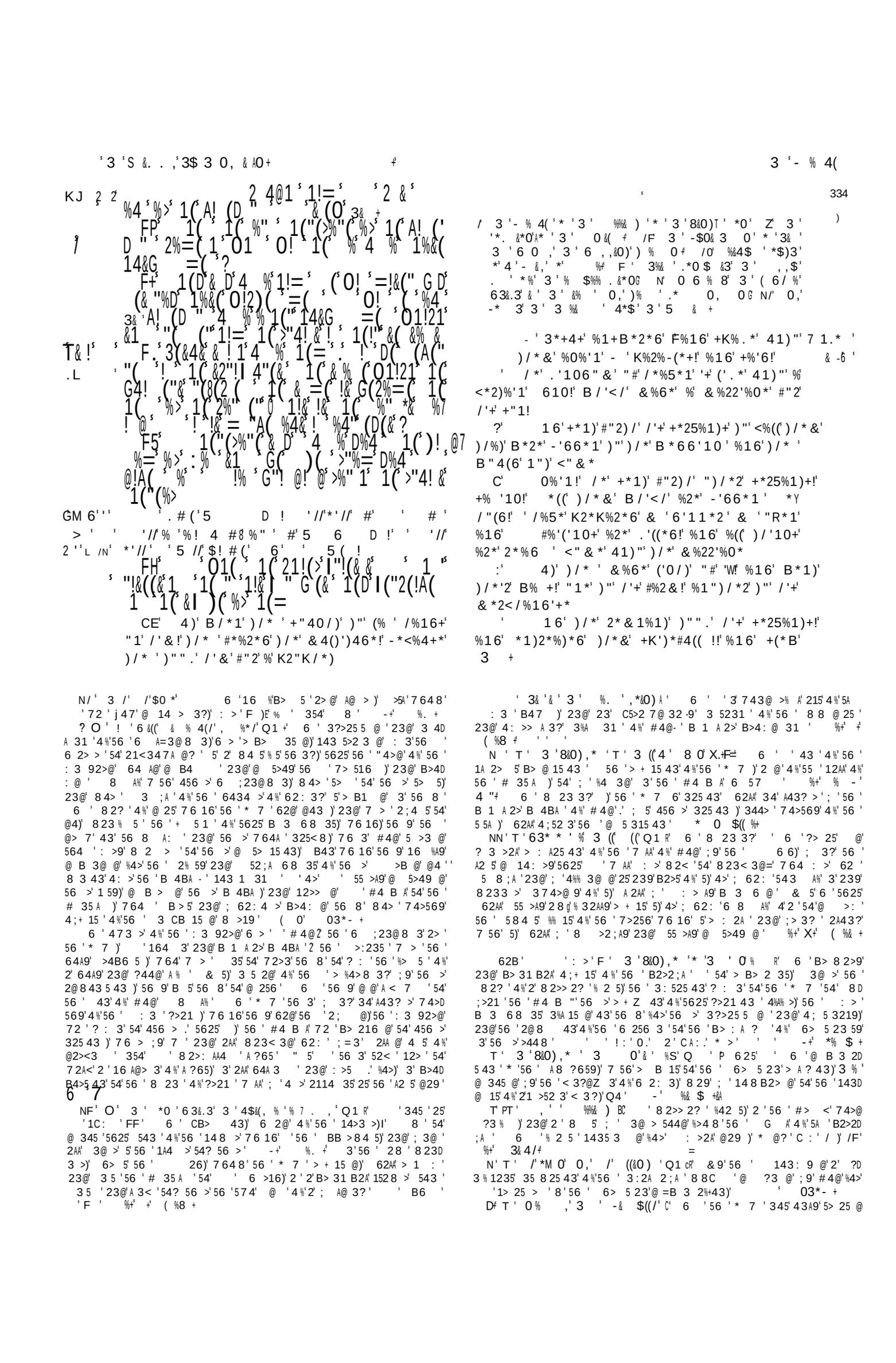
W ' T ' (' * ' ((' 3 ' 0 ' $0 *' 3 ' 3& ' 9' 2: 3?' 9 5' >3 43' ' 7 AA ; A4: @)I' 2><' C ' D+' 6)' 25' A2 5)' # 4@' 35' ' 43' 354' 56 ' 7 4>A@)' 5625)' %' 56 > ' 7 > ' 239' 8 23 ' A %5' 4 %' > @ 1 3?' 56 ' * 72' 54' > B 35231)' 56 9' 8 ?65' ; ' 143 : 31 @' 25' A2 5' ; 9' 56 ' 8 >21A ' 23@' 2 564> 59' 4 %' 6> 5' %+' +' (%8 +

L ' T ' 3& ' & ' 3 ' 3 &%' =' 6 ' : >)' 14 8 B2> @' 7 56' *463 C ' NL)' 8 ' 54' 6 35' 5625' 56 ' > A > ' 4 %' 56 ' * 7 ' 21<347 A @? @' 2 8 43? .' 56 8 A:)' 5625' 6> 5' 72 ' 56 ' 43' 4 %' # 4@' > ' &)3 ' ** +

' 3& ' & ' 3 ' 3 &%2' .* ' (' $ ' 8&(('3& ' 6 ' 56 ' * 7) 2%5 >' 2AA' 56 ' 3@ ?3 5 ' 7 6 16' 56 9' 62@' 4%% > @' 54' # 4@- ' 8 3D ? > ' 56 ' >4B6 5)' 7 > ' 54' 2@@' 56 ' 25' A2 5)' 54' % AA' B' 56 ' 8 2 >) 4 %' 56 >' 3 G 59.' 5625' 56 9' 64 A@' 2A 4' B 5' 54' @ 256' 56 ' 43' 4 %' # 4@)' 12 5 3?' ! & ' 4 5' 4 %' 3 ' 6 >16)' 7 64' 7 2 ' 56 ' %4 3@25 43' 4 %' 5)' 23@' 56 ' 2 564>' 4 %' 2AA' # 4@- ' ; A 3? ' 54' 5' > ' +' (%8 ' .



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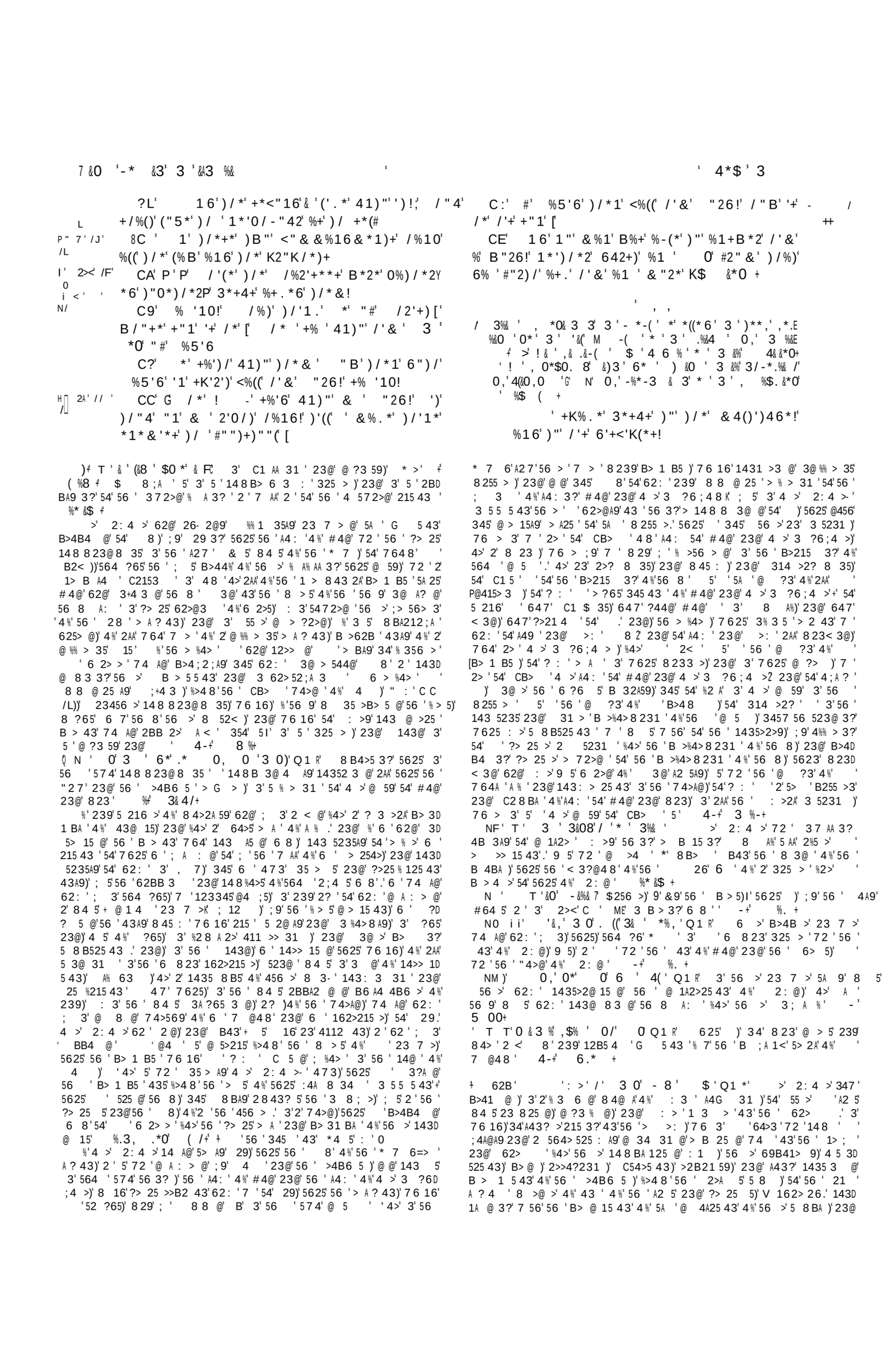

' * ' P' % '10!' / *' +<2'-*+' %16') / *' /%2'+**+ ' +')' '1' "+*+' +*%)
H' ((') / *2*#"2*' B / %)+"*5*2') / * ' -'6' "4' "-+*25*!' 3 ' "-+*25*!' %16' 6 " ' -4)' 6"' 1")'
*' %#)*2') / *'2' B "2.+' #"2') / * ' +% !' %16' 6"' 1")
; 4.*'' ' C' 7 "2') / * ' -'16' /*%5 ' -426*1+' %16' Y+ 02'*5"4+')"' -*' -"21*!' %16' (% ' 3 ' "1' & *1 +' +/"4(6*2+' ' -4)') / * ' 3 (' 'B'((' 1")' & "5*') / *' & B') /' "1*' "#') / *'2' #'10*2+
:' 4)' %((') / *'2' B "2.+') / * ' 6"' #"2')#A- *' 4)' / *') / %)' '+' 02*%)*+)' % & "10' "4' 8=M4&-'+' +**7' "#' & *1' ' 8) / * ' &%. *' -2"%6') / *'2' K / ' +/%((' -*' "42' +*25%1)
E 5' ' <)*2'*+!' %16' *1(%20*') / *' -"';6*2+' "#') / *'2' A9' P' 16' B / "+"*5*2' +/%()' *R%()' / '& +*(# ' 0%2& *1)+!' ; +/%((' -*' %-%+*6' %16' / *') / %)' +/%((' / 4& -(*' '# ; %2.' ' E' ;' 16' ("5*') / *' 4KK*2& "+)' 2"" & +' %) / '& +*(#+/%((' -*' *R%()*6
% < ' #*%+)+!' %16') / *' </'*#' +*%)+' '1') / *' + 1%' H' P' 4)' F B"*' 41)"' "4!' +<2'-*+' %16' C?' 0"04*+!']]]]]]]]]' W]]]]]]]] /%2'+**+!' / K"<2')*+X #"2' *' +/4)' 4K') / *

) / *' B') / 62%B'10' "# '+' K2*+*1<*!') '(( ) / *'2' #'1%(<"15*2+'"1' 2' ! (+
1') / '+' (%+)' %662*++' "#' "42' "26')"') / *' +<2'-*+' %16' /%2'+**+!' *5*2' '"1*' &4+)' -*' +)24<.' B') /') / *' +*5*2') ' "#' '+' 2*K2*"'"#+' '+' 2*-4.*+' B*2*' +)*&!' -4)' $4+)' '16'01%1)!' -4)' 6'<)%)*6 - ' 5'2)4"4+' '16'01%)'"1' *%21*+)' %16' 5*/*&*1)!' -4)') / *' 02%5*' (%104%0*' "# '1+4()*6 %$*+) !' "#' K*2#*<)' 0"'"61*+' 6*)*+)'10' 5'<*!' %16' "#' K*2Y #*<)' .1"B(*60*' K*1*)2%)'10' %((')+' 6'+04'+*+' %16' %002%5%)'"1+' 4-+' ' * +
F' T' &'&0' 5 * (> '56 '> 1 : @' 35 >B> 5 > ' 4%' 56 ' A27' 4%' 4 ' > ' 3&3/+' > '94 >' A27% A' > A >)' 62: 3?' 2 D 564> 59' 4: >' 94)' 11 @ 3?' 4 '23@'56 ' : 359' A@ > ' 8 ; ' N,+' /M' > ' ! *0,+
'O' 4$' ,*' 0*' / ' %' 3 &%' 6*%8 ' $ 1 : '56 8 ' ' 29)' %4>' 94 >' 3 5> 154>)' ; 5' ; 72> ' S%' 52< 3?' 56 8' %4>' 94 >' C28D BA ' -+' %40% +' A
': >'"4>@' 3 5> 15 ' '6 2> > '54'@ 5 3? 6' ; 57 3' 56 'B ; ' A 1<' 23@' B> : 25 ' 162>215 >' 4%' 56 '5 216 >' ' 6 7 ' 56 8)' 5625' 56 ' 8 3)' 764' 29' 23@' @4' 345)' 64 A@' 3 : >' ; '%4AA47 @' %4>' C28D BA ' ': 9 5' 5625' 8 3 5 > ' %'> A ? 43)' 764' 5' 3' 4 -' 162 >)' 23@' 2> ' 3: 5 @' 7 56' 2 564> 59' 54' 5 216' 56 ' A27)' 2> ' 54' ; ' 255 3@ @' 54' 2 ' 3 5> 154>)' 76 >' 3' 56 >' 4%% 1 ' 56 9' @ 34 31 ' 23@' 3%4>1 ' 56 ' 4>@ 3231 ' 4%' #4@' -+' %4$% *0+' 3' 56 ' 28 ' 8233 >)' 6> D 5 23 ' 2> ' ; 4 3@' 54' 4; >: ' 7625 : >' 56 >' 2 564> U @' 8 3 5 > ' 23@' B2 54> ' 62AA' @ A : >' 4 5' 4%' 56 ' 74>@' 4%' # 4@)' 23@' 54' 143 @ >' : >9' 64A9' 4>@ 3231 ' 2 ' : 2A @)' 76 16' 56 9' 62AA' B >%4> 8' 2?> 2 ; A9' 54' 56 ' 3 5 5 5 43' 4%' 6> 5)' : 3' 2A564 ?6' 56 >' 162>215 >' 23@' 143D @ 15' A 4 A@' 345' ; ' 764AA9' 43%4>8 2 ; A ' 54' 56 ' @ 5 ' 76 16' 56 9' 5 216 ' -+' *0,&0 +
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>+ L' 8' 4%* ,' 3 &%-3/(. %& ' '345 '25' C4@' C ' [' 2< ' ;>42@)' 5625')' 7 2>' 56 8' A2>? >' 5623' 456 >' 8 3' > +' (%8 +
3' 4*%, % AN' ' 6 ' 2> ' 56 '%> 3? ' 76 16' 56 ' * 7 ' 7 > 148 823@ @' 54' 7 2>' 8 ;)' C :)' LL)E 2 ' 2' 8 2><' 23@' 8 84> 2A' 4%' 56 >' ; 3?' #4@- ' B 1 A 2>' B 4BA)' 54' ; ' @ 5 3? 6 @' %>48' 456 >' 0 &*0 + 6 '56 ' 62> ' 3A2 ? @'%4>' B >B4 ' 4%' : 23 59' 23@' 4 5 3525 43' > ' ! *0,+
D+' O' 3 '$-- % * '%** N' 625')' 56 ' BB >8 4 5' BA21 ' 5' 56 '% 2 5 ' 4%' 56 ' 231 35)' 216' 14 16' 6 A@' 56> ' B > 43 .' 23@' 5' 72 ' 5 8 @' 56 ' ?> 25 5' 6434 >' %4>' 56 ? 5' 54' ; ' BA21 @' 43' 56 ' 28 ' 14 16' 7 56' 56 ' 82 5 >' 4%' 56 ' 64 ' -+' %. +
>' 2: 4 >' @ BA29 @' 56 ' 28 ' B> % > 31 ' %4>' 56 ' 8 <' 23@' 6 8 ;A ' 162>215 >)' 76 16' 72 ' > 82><' @' 3' 162B ' : ' H\' ' 345 ' 56 >)E 3' '> B 25 @' 14>> 15 43' 4%' 56 ' 28 ; 5 43' 4%' ' @ 1 BA .' '%> G 35' 2@ 8 43 5 43)' 5625' ?> 253 ' 72 ' 54' 143 5' 3' 6 8 D A 59' .' ' 1 3 > ' 4%' 5625' A4: ' 4%' @ 5 315 43)' 23@' ?> @ 3 ' 4%' B > 4> 59)' 76 16' 56 ' 16 %' B > 43 ' 2843? 5' ' 14335>98 3' 7 > ' 7435' 54' @ BA29.' : > ' 0 T L' A %.3, .*0' (/+

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J' Q 4)' -*' 1")' *' <%((*6' %--' ' #"2' "1*' "$%&*++' 4' '+' "42' %+)*2!' ' 0' / 2'+)' %16' % ' *' %2*' P -2*) / 2*1
L' 16' <%((' 1"' 0' "42' #%) / *2' 4K"1') / * *%2) / ' F#"2' "1*' '+' "4)' %) / *2!' B / '< / ' '+' '1' ;' %)' '*' / *%5*1
A ' *') / *2' -*' *' <%((*6' & %+)*2+' #"2' "1*' '+' "42' %+)*2!' ' 0' / 2'+)
W' T ' 44&N' 625' ' 9' 82 5 >)' 4%' 5 216 >)' *463' ' LL2 ' AM .' 2'5 5A ' 7 6 16' 56 ' 1> ; ' 62@' 25' 5625' 5 8 ' 2 8 @' -+' %. +
L' $' 4 ' 0*' / ' . ((,' 44&.R' " 5' 34' 8 23' 2 8 43?' 94 ' 143 ' 5 3@' %4>' B > 4> 59' 4>' B> 1 @ 31)' %4>' 9 ' 62: ' 43 ' B> 8 ' 2@)' 7 6 16' ' 6> 5 ' > ' +' (%8 +' E >' 2: 4 >' @41 ' 345' 6 > ' %>2>' ; @' 56 ' ' 4%' 16' 5 5A ' 4%' > B 15' 2 ' B>4B >A9' ; A43?' 54' B .' > 4 >' >23<' 4>' 325 >2A' > A25 43.' ; 5' ' %4>; @ ' ' @ 1 BA ' 43' 56 ' 43 ' 623@' 54' >B' 23' 3@ ' 2 564> 59' 4: >' 56 ' 143 1 31)' 4>' 43' 56 ' 456 >' 54' 9 A@' 23' 8 BA 1 5' 4; @ 31 ' 3' 8 255 > ' 4%' > A ? 43)' 54' 56 ' @ 1525 ' 4%' 8 3 ' -+' 5 00
J) / ' 0,' . ((' 0 * ' 0 / *$%' 3 X' Q 1 R' 6 ' 8 B4>5' 4%' 56 ^' 4>@ ' 8 ' 54' ;)' 5625' 34' 8 23' 64 A@' ; ' 12AA' @' H' %256 >' B43' 2>56) I)' 4' 5625' 7 ' 64 A@' 9 A@' 23' 2; 4A 5 ' ;+ 15 43' 54' 6 ' 7 AA' 23@' BA 2 >)' 4>' ; ' 2; 4A 5 A9' 729 @' 23@' ?4: >3 @' ; 9' 5.' 2A 4' 5625' 7 ' 64 A@' 12AA' 34' 8 23' ? @ ' 4>' 8 2 5 >' B43' 2>56)' 4' 2 ' 2; D 4A 5 A9' 54' ; 8 5' 4 > A:)' 3' 56 ' 1431 >3 8 35' 4%' ; >' ' 5 >32A' 35 > 5)' 54' 56 ' 143@ 15' 4%' 6 '+ @? 8 35)' 4>' ? : ' 6 8' @48 3 4>' 49 >' 4 >' %2 56' 23@' 143 1 31 .' 6> 5' ; 3?' 8 ' 4A' # @' 23@' 216 >' 4% ' 6 >16)' 148 8 43 @' ; 9' ' '256 >' 54' > : 2A' ' % AA)' 23@' 5 216' ' 7625' 3 @% A' 54' ; ' <3473)' ; A : @)' 4>' @43)' 3' 4>@ >' 54' 2A: 25 43)' 23@' B4 5A ' ; 3?' ' 8 3 5 > ' 23@' 28 ;2 2@4 > '5 21A 3?' 3' '328 ' %+' 3&4/' 6 '? 3 D >2A' 8 23 3?')' 2>< 3' 54' # 4@' 23@' 345' 54' 8 23)' 3' 12 ' 76 > ' &[' : @ 35' 5625' # 4@' 5 216 ' 23@' > G > ' 43 ' 6 3?)' 23@' 8 23 ' 23D 456 > ' & ' 345' 4: >' A @' ; 9' 56 ' 2 564> 59' 4%' 325 >2A' 23@' 2>56A9' %256 >)' 34>' 4%' B > 5 2A' %256 >)' 5625')' B2 54> ' 23@' 5 216 >)' 31 K 4%' B4A 5 12A' %256 >)' 5625')' 4%' > A > ' 23@' 82? 5>25 ' 6 9' 2 - ' 2AA' 54' ; ' 4; 9 @.' ; 5' 7 56' 56 ' C1 B5 43)' 5625' 56 9' > G > ' 34%A 3?' 1435>2>9' 54' 56 ' 7 AA' 4%' # 4@' 3' 16' 2)' 9' 12AA' 34' 8 23' %256 >' B43' 2>56)- ' 29 ' 4 >' "4>@)' H %4>' 3 ' ' 94 >' ' 256 >)' 76 16' ' 3' 6 2: 3.I' 23@' 12AA' 34' 8 23' 82 5 >)' 9' %4>' 3 ' ' 94 >' 2 5 >)=' : 3' 6> 5 I' > ' *% &$+' A
5' 1A 2>A9' 2BB 2> '5625)' 3' 56 ' B2 2?)' H' 12AA 3?' 239' 8 23' %256 >' B43' 2>56)\' ?3 % ' B29 3?' 54' 239' 2>56A9' 5 216 >' 345' 2' @ ' > D ?2>@' 8 @' 255 35 43)' ; 5' 5625' @ % > 31 ' 76 16' 56 ' 1> ; ' 23@' 62> D ' 7 > ' > B>4: @' ; 9' 4 >' 2: 4 >' %4>' 3+ 5A9' 1A2 8 3?' 3@' 56 ' @ % > 31 ' 76 16' 56 9' 1A2 8 @' 72)' 5625' 8 3' 64 A@' %4AA47' 56 8' 8 BA 1 5A9' 23@' ?34>235A9' 3' 5A ' 5>2@ 5 43 ' 76 16' 56 9' 52 ?65' > ' +' (%8 +
J+' 0,' 63* * ' % Q ' 5' ' 74>569' 4%' 4; >: 25 43)' 5625' 34' ' 43 ' 35 8 35' 4%' 4 >' "4>@-' ' 4' %> G 35A9' > B 25 @' 2 ' 56)' 76 16' 411 > ' 25' A 2 5' 5 3' 5 8 ' 3' 56 ' : 23? A 5 ' > ' 4==' &%&,) +
' O' 3 ,' $-' 3 '8&0), * '* ' 3 ' 0' Q ' (' 4; 5> 15' @

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11" .'106"&' "#/*%5*1 %0%'1+) &*1 #"2 * %%' 1*')/*2)*' '1 /*$% (' 1*')/*2 +4##*2 *') /*&) /%) %2*' *1)*2'10)"' 0"' '1

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S >2')' / K"<2')*+X 7#"2 *' 6*5"42 B'6"B+' /"4+*+!
4.* #"';' %' K2*)*1<*' &%.*' ("10 K2% *2
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/ K"<2')*+X #"2 *' <"&K%++ +*%' %16 (%16')"'
&%.*' "1*' K2"+*( )*!' %16 B/*1 /*' '+ &%6*!
' &%.' /'&')B"#"(6 &"'7*')/*' </'(6 "#'/*((
)/%1 "42+*(5*+

' "*41)"' "4!/ '-('16'04'6*+!B/'</'
+% ' /"+"*5*2 +/%((+B*%2 - ')/*')*&K(*!
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- ')/*' 0"(6 "#')/*')*&K(*! /*' '+ %' 6*-)"2X

AI' #""(+ %16 -('16 #"2 B/*)/*2 '+
02*%)*2!')/*' 0"(6!"2)/*')*&K(*')/%)'+%1<)''
#'*)/')/*' 0"(6 [

AJ' 16! /"+"*5*2 +/%((+B*%2 - ')/*'
%()%2!')' '+ 1")/'10' -4) B/"+"*5*2 +B*%2
' 2! *)/- ')/*' 0'#)')/%)' '+ 4K"1')!/*' '+ ((04'()
4*$0,S / J' #""(+ %16 -('16' #"2 B/*)/*2 &'
02*%)*2!')/*' 0'#)!"2)/*' %()%2)/%) +%1<)'#''
)/')/' 0'#)' [

/"+"')/*2*#"2*' +/%((+B*%2 - ')/*

%()%2!' +B*%2*)/' - ')!' %16' - ' %((')/'10+'
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9A' 16' B/"+"' +/%((+B*%2' - ')/*')*&K(*!
+B*%2*)/' - ')!' %16' - ' /'&')/%)' 6B*((*)/'
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99' 16' /*')/%)' +/%((+B*%2' - '/*%5*1!
+B*%2*)/' - ')/*')/2"1*' "#' "6!' %16' - '
/'&')/%)' +'))*)/')/*2*"1

9?' "*41)"' "4!+<2'-*+ %16' /%2'+**+!
/ K"<2')*+' #"2' *' K% ')')/*' "#'&'1)' %16' 8 4.<"'
%1'+*' %16' <4&&'1!' %16' /%5*' "&'))*6')/*'
B*'0/)'*2' %' "#')/*' (%B! $460&*1)!
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6"1*!' %16' 1")')"' (*%5*')/*' ")/*2' 416"1*

9C' -('16' 04'6*+!B/'</' +)2%'1' %)' %'
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9:' "*41)"' "4!+<2'-*+ %16' /%2'+**+!
/ K"<2')*+X Q#"2' *' &%.*' <(*%1')/*' "4) P *''
+'6*' "#')/*' <4K' %16' "#')/*' K(%))*2!' -4)'
B')/'1')/* ' %2*' #4((" "#' *R)"2)'"1' %16' *RY
<*++

9E' 3*$'-('16' /%2'+**!' <(*%1+*'#'2+)' 3 '
T63&.3' &' B')/'1')/*' <4K' %16' K(%))*2!')/%)'
)/*' "4)+'6*' "#')/*&' &% ' -*' <(*%1' %(+"
' "*41)"' "4!+<2'-*+ %16' /%2'+**+!
/ K"<2')*+X #"2' *' %2*' ('.*' 41)"' B/')*6'
+*K4(</2*+!B/'</' '16**6' %KK*%2'-*%4)'#4(

&5>231' 354' 56' < 3?@4 8' 4%' 6 2: 3' ;9' 94 >' C28BA)' B> 5 3@D
3?' 54' ;' ? @ ' 54' 456 >)' 23@' 94 > A: ' > % 3?' 54' 35 >T ;9'
94 >' @415> 3' 3' 12: AA 3?' 25' 9' 74>@ T =;9 94 >' 2 564> 59' 3'
B > 1 5 3?' 564 ' 764' 8 ;>21' 56' #4 B A' %+' 3& 4/+
/N' T /', '*$% &,*' '3*$ B' (';> 2<' 56' 84>2A' 23@'
5 >32A' A27' 4%' #4@' ;9' 94 >' >2B 3' 23@' C54>5 43)' =B> 3?' 5A'
+9 @47' 23@' %256 >A ' 7648' #4@' 6256' 148 823@ @' 94 ' 54' B=
B4>5)' 23@' 56 3<' 54' 6 @' 94 >' 14: 54 3 ' 3@ >' 56' B 14 ' %4>D
8 2A 59' 4%' A43?' B>29 >' 23@' ?> 25' 5> 153 ' 3' 56' C5 >32A' B2>5'
4%' > A ? 43' %+' (%8 +

L L 4%' -% 0.' 8' (*0)' -% / %.RR' ' A43?' B>29 >' %4>'
2' @ ? K' 56 >' 5> ' 845 : ' 72' 2:2> 1)' @ :45 43' 72' 43A9' 56 >'
82 <' %+' -4 ((6 9' 48 5 8 '1435 3 @' 5A > ' 64 >' 3'
B>29 >)' 23@' B >62B' B> 5 3@ @' 5625' 56 >' B>29 >' 14 A@' 2:2 A' 54'
'B>41 >' %2:4 >' %4>' 456 >)' 23@' 3@ >' 56' B> 5 31' > 1 : @' ? %5'
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>+' L '/'.* - ' ' 0,' (0,' Q1 R' (' B> 5 3@' ?> 25' U 2A' 54'
143: >5' 2' 5>23? >' 54' 94 >' > A ? 43.' ; 5)' 76 3' 9' 62: ' 4' @43)'
9' 14>> B5' 6' 325 >2A' 345 43' 4%' ?44@' 23@' : A' 7 56' %2A ' @41D
5> 3 ' 23@' :2 3' 16 8 ' 4%' > A ? 43)' 23@' 82< ' 6 8' 8 16' 74> '
5623' 6' 72' ; %4> ' %+' +' (%8 +

3' .3&(,' * '3 (' ' ;> 7' CB> 43' %4>' 43' 74>569
4%' 6 AA' $ *4% +

/M' T' 63&.3' /+' 3* * ' %Q1 R' 5' 2BB 2> '5625' 56' 62>)'
3' 56 >' 5>2@ 5 43)' 52;A 6 @' 564 ' 4256' 43A9' 54' ; ' ; 3@ 3?)'
76 16' 7 > ' 74>3' ; 9' #4@' 4>' 48 56 3?' 8 8 @ 25 A9' 143 1>25 @'
54' 8 2 23@' 56 > %4> ' @ @' 345' 82 352 3' 56' 4 ;A ?25 43' 4%' 4256'
82@' ; 9' 56' 5 8 BA' 4>' 2A52>)' 76 16' 62@' 43A9' 2' ? 3 >2A' 143 1>2D
5 43)' ; 5' 4%' 564 ' 82@' ; 9' B2>5 1 A2>' 4 ;A25 43' 23@' ? %5 .' @ :45 @'
54' #4@' ; 9' 56' :4A 352>9' B 59' 4%' 8 3)' 16' 2' 56' ?4A@' 43' 56'
5 8 BA' 23@' 56' ? %5' 43' 56' 2A52>)' 54' 76 16' 56 9' 255216 @' 84>' B D
1 A 2>' 2315 59' 6' 4 >' 2: 4 :' 143 @ > ' 54' ; ' 2' B 5 % A' @ 1 5'
54' %> 5>25' 56' 4 ;A ?25 43' 4%' 4256 ' 5' ' B>4 ; 2 ;A ' 5625)' ; 9' 3D
1> 2 3?' 56' B> 8 @' 2315 59' 4%' 56' ? %5' 4%% > @' 3' 56' 5 8 BA)'
56 9' 62@' 56' 4 ;+ 15' 4%' 82< 3?' 8 3' 64> ' A ; >2A' 3' 56' 729)' 23@'
56 ' 4%' @ > : 3?' ?2 3' %>48' 56 >' @415> 3 ' %+' ! *0,+
/L' T' 3' & ')$&(/+J' $256 >)' H' 6 ' ;4 3@I' 2 ' 3' 56' 82>? 3E'
54' 82< ' 56' 4256' ?44@' -+' %. +

F' T' /' -/'(& 3' Q1 R' (' 2>' B > 554 A9' 1> B A4 ' 23@'
B> 1 ' 3' 56 3?' 4%' 82AA >' 848 35.' ; 5' 8255 > ' 4%' ?> 25' 23@'
5 >32A' 4 ;A ?25 43)' + 51' 23@' G 59)' 8 >19' 23@' 162> 59)' %2 56% AD
3 ' 23@' 5> 56' 5472>@' ' #4@' 23@' 8 3)' 9' 764AA9' A ?65' 23@' 3 ?A 15'
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' %' ' 62@' 2@' (' 4 ?65' 54' B >%4> 8' 943>' @ 59)' 345' 43A9' 54'
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2< K' 2' 9' B> 5 3@' 54' 74> 6 B' 23@' 4 ; 9' #4@)' 9' 4 ?65' 54' ; '
8 >1 % A)' + 5)' 23@' %2 56% A' 354' 8 3' > ' A 5' ' 4 ; >: ' 647'
' 12AA' + @? 8 35)' 8 >19)' 23@' %2 @)' 4>' % @ A 59)' 56' 7 ?65 >'
8 255 > ' 4%' 56' A27' .' ; 12)' 7 564 5' 3 ' 7625 : >' A ' 7 '@4'
7 AA' 2:2 A' 3456 3?' 3' B>41 > 3?' 4 >' 2A:25 43)' 56 ' 4 &0)' 56' ?> 25'
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456 >' -+' ' %&,) +

FN' T' 63&.3' % &0' ' ')0 J' 3' 56' 4A@' 3?A 6' 5>23 A25 43'
56 ' ' > 3@ > @' 9' 76 16' 5>2 3' 4 5' 2' ?325)I' 23@' 56 ' ' 8 4> ' '
143%4> 8 2 ;A ' 54' 56 ' 3 ' 4%' 56' B2 2? ' AA 43' ' 8 2@ ' 54' 56 '
1 548' 76 16' B> :2 A @' 2AA' 4: >' 56 ' 2 5)' 4%' B2 3?' 56 >' 7 3 '
23@' 456 >' A G 4> ' 56>4 ?6' 2' 5>2 3 >)' 5625' 34' ?325 ' 4>' %A ' 8 ?65'
? 5' 354' 56' 1 B' -+' %. +' A 6' * 7' > 1<43 @' %A ' 28 43?'
31A 23' 23 82A)' 23@' 43' 5625' 2114 35' 7 > ' B2>5 1 A2>A9' 12> % A' 54'
5>2 3' 56 >' 7 3 ' /+
6 >' ' 2' 84@ 8' >2; 1<' B>4: >;' 54' 56 ' %% 15.' ' 72AD
A47 @' 23' A B6235' ; 5' 72' 5>23?A @' ; 9' 2' %A 2' W%) 0 ' *'
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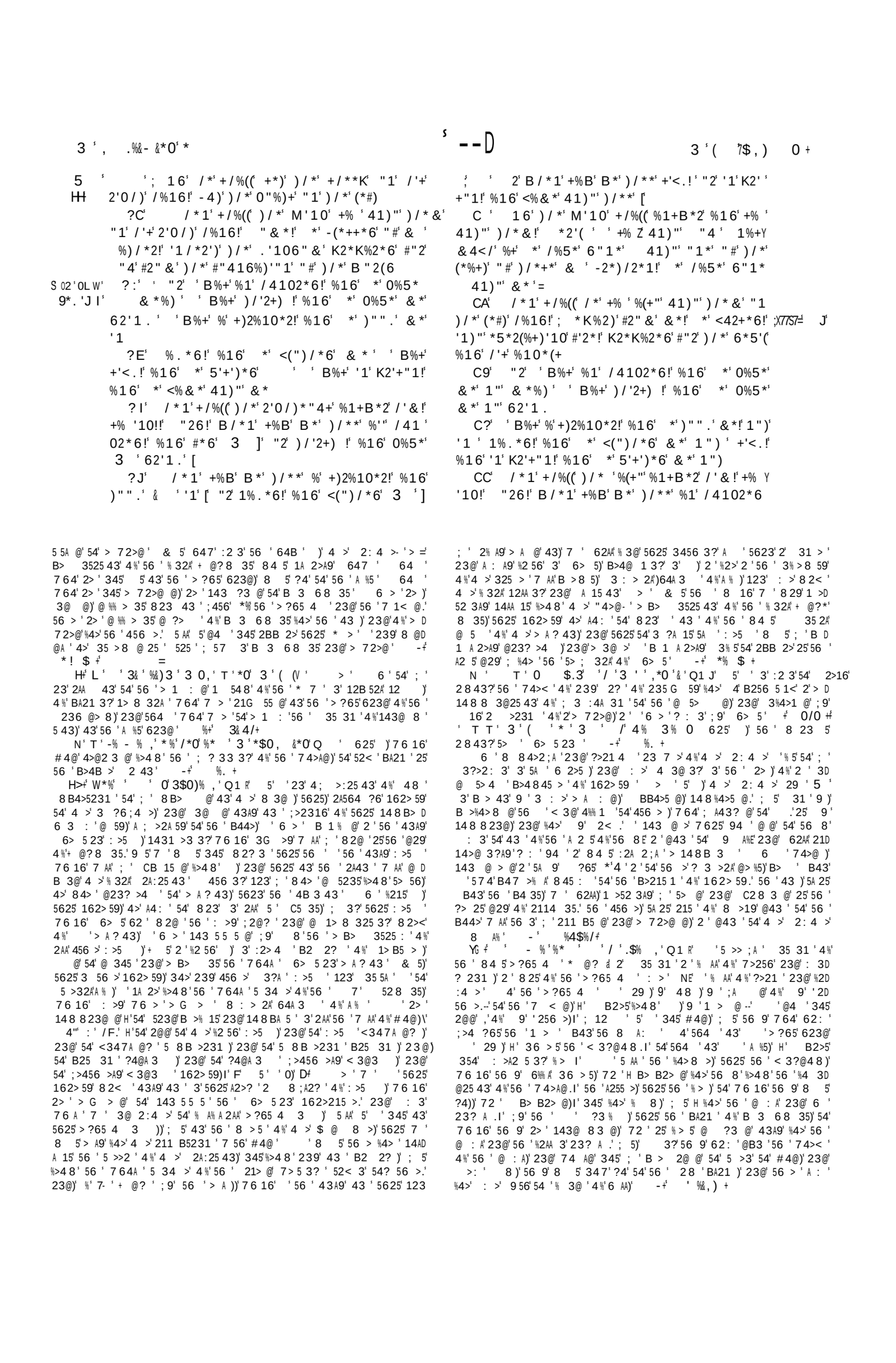
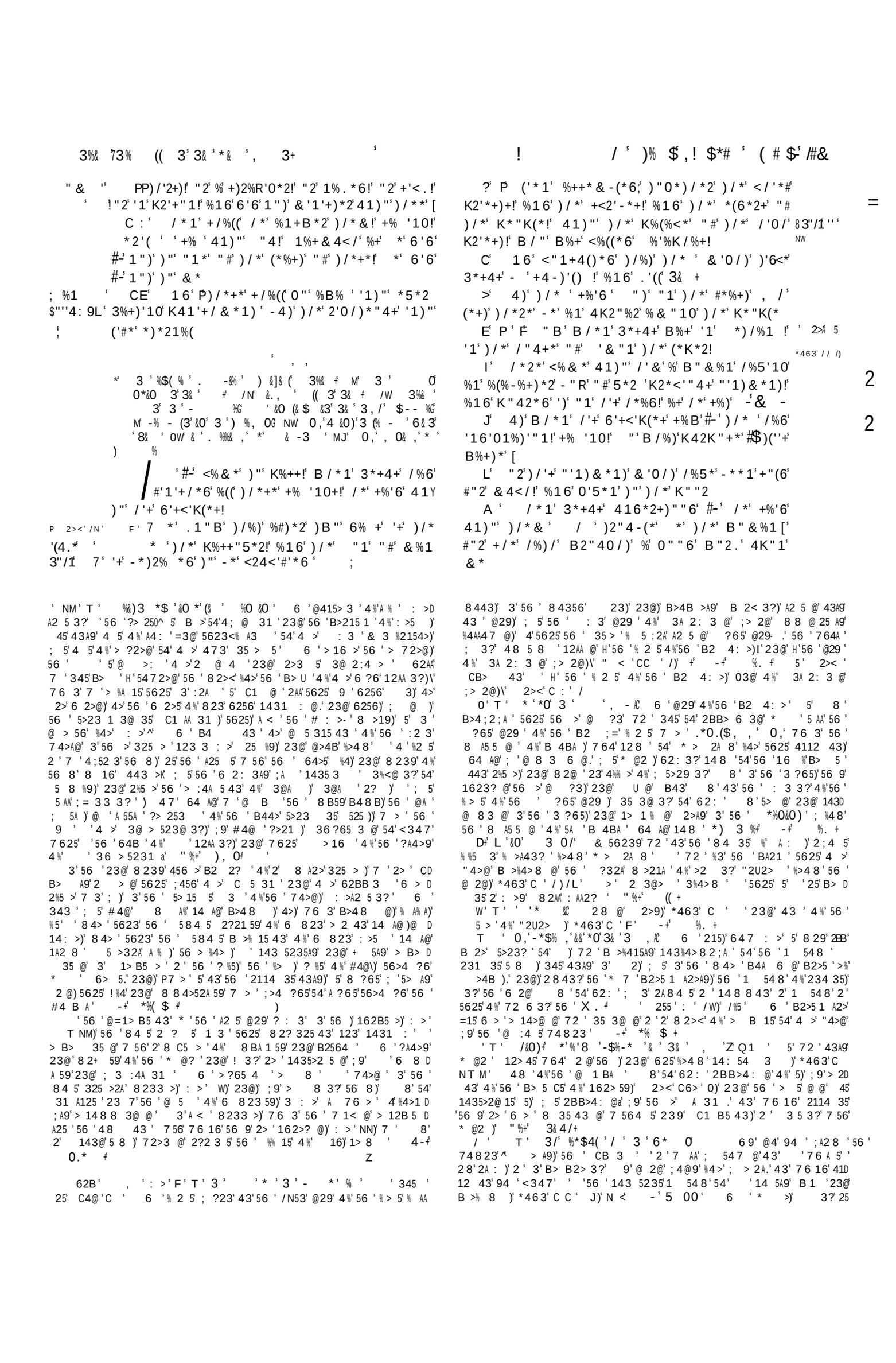
6 ' 8 23 3?' ' (' 2>' B > 554 A9' C215' 3' 82AA' 56 3?)' ; 5'
3 ?A ? 35' 3' 564 ' B%' ?> 25 >' 8 B4>5231 ' -+' 5 00++
' T .(0 % ' 3 ' 63&.3' & ' 6&3&&- ' 8 BA9 3?)' 5625' 56 ' 1A 23 D
3?' 4%' 56' 6 2>5' ' 4%' 3 % 3 5 A9' ?> 25 >' 8 B4>5231 .' 5625)' 2%5 >' 2AA'
56 >' 72 6 3?)' 56 >' 623@' 7 AA' 5 AA ; ' 31A 23' 3' 2' 84>2A' 3)'
%' 56 9' ; ' 14: 54 ' 23@ 3+ 5' 3' 56 >' @ 2A 3? .' 23@' 56' 5> '
729' 54' 82<' 56 8)' 3' 2' 84>2A' 3)' 1A 23)')' 54' 8 BA49' 56 8)' 3'
2' 325 >2A' 3)' 3' 74><' 4%' 162> 59' 23@' 148 B2 43' -+' 5 00+
' F/' % '(&8 $0 *' 63& ,' -$(.3% F=' 5' 72' 56' 1 548' 4%'
56' * 7' 54' 76 5 3' 56 >' B A16>)' ; 456' %4>' 56' B >B4 ' 4%' 4>D
328 35)' 23@' 54' B> : 35' 56' @23? >' 4%' B4AA 5 43' ; 9' 544' 3 2>' 23'
2BB>4216' 6' >2; ; ' 12>> @' 4' %2>' 56' 345 43' 4%' 56' @23? >' 4%'
@ %A 8 35' %>48' 56' 12)' 5625' 56 9' @' 54' 82><' 7 56' 162A<' 43





AA P "2 * /%5*)/* K""2 %(B% + B')/ "4 -4) &* */%5*1")%(B% +
A9 "2'1')/%)+/* /%)/K"42*6')/'+ "'1) 2)'*1) "1 & -"6 !+/*6'6'#-#"2 & -42'%(AF *2'(A +% 41)" "4! /*2*+"*5*2)/'+0"+K*(+/%((-* K2*%</*6' '1)/* B/"(* B"2(6! +/%((%(+")/'+!)/%))/'+B" &%1 /%)/6"1*!-*)"(6#"2% & *&"2'%("# /*2 # 7 /*1 "1* "#)/*)B*(5*! <%((*6 * 346%+ +<%2'")!B*1) 41)")/*</'*#K2'*+)+! A: 16+%'6$0 *3 /%)B'((*'0'5* &*!%16 B'((6*('5*2 /'&41)" "4[16)/* <"5*1%1)*6 B')/ /'&#"2)/'2) K'*<*+ *1+'(5*2 AE 16#2"&)/%))'&* /* +"40/) "K K"2)41'))" -*)2% /'& # %))Æ &7 P P "B)/*#'2+) , ; * 3 * '6'.* ! 41(*%5*1*6 -2*%6)/*6'+<'K(*+ <%& *)" 3Y +4+! +% '10 41)" /'& /*2* B'()/"4)/%) B*K2*K%2*#"2)/**)" *%)/*K%++"5*2 [AJ 16 /*+%'6 "'1)")/*<'))" +4</ %&%1!%16+% 41)" /'& /* %+)*2+%')/)'&*'+%) /%16 ' 'B'((.**K)/*K%++ "5*2%)/ /"4+*B')/ & 6'+<'K(*+ AL 16)/*6'+<'K(*+6'6 %+3*+4+ /%6 %KK"'1)*6)/*& %16)/* &%6*2*#'6)/* K%++"5*2 ; F "B B/*1)/*5*1 B%+ <"&*!/*8 %2. & +%)6"B1 B')/)/*)B*(5* *+% 16%+)/* 6'6'*%)!/* %'6! *2'(+% 41)6 "4!)/%) "1*"# ")) +/%((/*)2% &* = 16)/* B*2*R<**6'10+"22"B#4(! %16 -*0%1 *5*2 "1*"#)/*&)"+% 41)" /'& "26!'+') [16 /*%1+B*2*6%16 +%'6! *)/%) ;7 % ' 6'KK*)/3& /%16 B')/ &* /%16 B')/ &* '1)/*6'+/!)/*! +%&*+/%((-*)2% &* 9C /* "4 "#&%1 '0"*)/X %+')'+B2')Y)*1 "#/'& -4) B"* 41)")/%) &%1 - B/"&)/* "1 "#&%1 '+ -*)2% *6X ')/%6 -**1 0" "6#"2)/%) &%1 '#/* /%6 1")*-**1 -"21 9: /*1 346%+5 B/'</ -*)2% *6 /'&!%1Y +B*2*6 %16 +%'6X %+)*2!'+')#[*+%'6 41)" /'&!! /"4 /%+)+%'6 n %1 9E P 16 %+)/* B*2* *%)'107 3*+4+)"". -2*%6!%16 -(*++*6 & %16 -2%. *&) . +

431 '56 'B 59'* 3 %' 3 % '23@'56 'B > 59'4%'6 >' 35 35 43)'7 56 '5625' 7 53 '4%'5 8B >'76 @ '72 325 >2A'54' 8)'345'43A9'21D 1 B5 @'6 >'6 8 ;A'4% > 3?'7 56'148 BA21 319)'; 5 ? 3 >4 A9'@ .' % 3@ @6 >'2?2 3 5'56 ' AA ; >2A 12 A' *% & + /F' T ',&,'& *%A /'4$%& (A' 6 ' 754323- '@ ?3' 72 54' 6 7 ' 6 >'> B 15'%4>'*)' ; 5' '52< '4112 43'6 31 '54'%4> 72>3' '@ 1 BA)'5625' '; > 2A' 72 '2BB>4216 3?' %* &$ + / ' T ' 3 % * ' %' 3& ')* - (' X .+ ' 6)'2 7 '<347)'72 ' 34':2 3'B> @ 15 43'+' 5'62 '; 3' 8 4 5'A 5 >2AA9'23@'B 315 2AA9'% AD % AA @)'23@'7 '4 > A: '2> '7 53 '4%'5 '14 8 BA 5 43'25'56 ': >9' 848 35' -+' *% $ +' 6> '4 5'4%'56 '%4 >' :23? A 5)' 5' 2556 7)' 5' 2><)'23@' 5'" <)'62: '> 14>@ @'56 ' : 35 ' -+ %. /0' L *%' 3&% /'-& . ' * ',(' % ' '4>'56 >59' 6 < A)'2;4 5' A %'L@'4%'4 >' 843 9' 5'2BB 2> '%>48' C4@'CC ' F)'5625' =6 72 '56 'B> 1 '54' ; 'B2 @'%4>'2' A2: '4>' >:235'76 3' @AA @' ;9'2' ; 2 5' 4' : A A9'72 ' * ' 5 8 @' 764' 6 @' 'B> 1 4 ' ;A44@'%4>' 8 23.' 23@' 4' 5> ' 5')'5625' 6> 5'544<' B43' 8'56 ' ' %4> 8'4%'2' >:235' % +' ! *0,' 0,+' 3& 4/+ ' T ' 3 ' &% ' , /' * 'O'$0(' 0 ,' 4% , ' 6 ' 84>3 3?' 4%'56 ' @29)' 6 > @29)E' 43'56 ' : 3 3?' 4%' 76 16'56 ' B2 162A' A2 8 ;' 72 '4>@ > @' 54' ; ' A2 3 ' 64 ?6)' 5> 15A9' B 2< 3?)'56 9' 7 > '345'4 ;A ? @')54' 2; 52 3'%>48'A 2: 3 @' ;> 2@'5 AA'56 'B2 16 ' BB >)'9 5)'56>4 ?6' 12 5 43'345'54' 4%% 3@' 2?2 3 5'56 'A27)'56 9' ; ?23'54' > 84: ' A 2: 3 @' ;> 2@'%>48'56 >' 64 '4B'56 ' /N56)' ; %4> '56 'A28 ;' 72 '< AA @' 31 '56 '@29' '6 > '12AA @'9'56 ' %> 5'4%' 3A 2: 3 @' ;> 2@)\'564 ?6' 4 ' ? : '5625'328 '54'56 ' /056)' C4@'C ' ' ' (%.+ F ' T ' ! ' 3 ' ,&-- 3'3&'3 0,'%*&8' '&0' 3 ' ,&3F' 3' &2>;2>9)' 23@ B>4;2;A9' 3' 56 ' 2 5)' 76 3' 56 ' %44@' ' 239' A G @' ; 5231)' 2%5 >' 62: ?' ;>4< 3' 56 >' ;> 2@' 354' 82AA' B 1)' 56 9' @B' 56 >' 623@' 23@' 56 >' 84> A ' 54? 56 >' 3' 5' ! %+' 3 + FN' 3 ' *0' * ' 0')* 3Q) ' 8 5' 3@ @' %% >)' * 2 ' 29)' 2114>@ 3?' 54' 56 ' 7 AA 4%' #4@)' 23@' 2114>@ 3?' 54' 56 ' B>4B6 D 1 ' 1431 >3 3?' K ; 5)'564 ?6' 56 ' : 3 ' @4 8'56 3< ' % 5' 54' '56 '7 1< @3 '4%' 9' ; 5>29 >'2 '23' 3 5> 8 35'54' %% 15' ' ?> 25'@ ?3 '.' 9 5'56 ' 7 1< @3 '4%'6 8)'7 64'56 ' 7 A% AA9'23@' 8 2A 1 4 A9' ; 5>29 ')' '345'43'56 '2114 35'56 'A 2'23@'56 > D %4> ' 6 'B 3 68 35' 7 AA' ; ' 4'?> :4)'5625' 5' 7 > '62BB9'%4>' 6 8'62@'6 '3 : >' ; 3' ;4>3 ' ! %+' +' (%8 +)) F0' 3 '3 ' &,+FJ 6 ' CB> 43' 2%% >8 ' ( )' 564 2>5'56 'B > 12' 7648' '8 23' 6 '74>@ ' 8' B4< 3'54'* @2 ' 2B2>5.' ' 64 A@'6 > '4; >:)'43'56 ' >3 '623@=' 56 '@ : 3 '%4>Q0' <347A @?' 4%' 6> 5)' 3' @ 14: > 3?' 56 = 6 @@ 3 '@ ?3 ' 4%'56 ' 6 2>5.' 23@)'43'56 '456 >' 623@)'56 '@ 1 5% A3 2 '4%' 3)'7 16' @> : ' 8 3'54'56 >' @ 5> 1543)'345 7 56 523@ 3?'56 ' +@2 3 5' 72>3 3?' -& 5 00+ 6 '72 ' 2@' *'* @2 ' 2'A47 :41 ' 5 ' 6 2>@' ;9'56 '> 5' %+' ! (FM.' T ' $ ' **8' 4% , 'Q cF ' 64 A@' ; 2>' >' 8 3@ '5 =25' 4 >' "1%A @' 72 ' 347' 4A 8 3A9' 148 8 834>25 3?' 56 ' B2 4: >) '56 ' 84 5' 143 @ >2;A '4%' 2AA' 56 ' 21>%1 ' 2BB4 35 @' 3@ >' 56 ' A@ ' 528 35)'23@' 56 '59B '4%'5A ' ?> 25' 21>%1 '%4>' 3)'82@ ' ;9 ' B' 6> 5'4 >' 2 4: >)\' / 4>' >'W' 6 56 ' CB> 43 -56 > %4> ' 76 16' ' ' '> % > '545 ; '4112 43'B> 35)'23@'56 'Z%4+ 15 ' ; %4> ' 8)'76 16' 8 5' 2AA' ; '52< 3' 354' 56 '2114 35)' %'7 ' 74 A@148 B> 6 3@'56 '% A3 '4%' >2 25 %5 ?.' 5' '2 ' %' ' 62@' 2@'(4 '2> ' 25 3?'56 '%A 6'4%'56 'A2 8 ;.' 56 ' ;A44@'4%' 5' 62 '; 3' 6 @'43'56 '2A52>'54'82<'2543 8 35' & 5'94 '8 5'347' <347'5625'56 '56 = '2> '; 5' 62@47 =' '28'56 '?> 25' 21>D %1)'23@' 9 ;A44@'56 '5> '2543 8 35' 25'4%'56 ';> 2@E@> 3<' 4%'56 '1 B)'143 @ > 3?'56 8'2 '> B> 35 3?' 9';4@9'23@';A44@)' 23@'94 ' 32 A';'B2>52< > '4%'7625' 72 '2A729 '56 ' 3@'23@'8 23D 3?'4%'56 'A ?2A'B2 4: >.' 4%'56 ';4@9)'76 16' '+ 5'347'?4 3?' 54' ; 4%% > @' 3' 21>%1 '54' #4@'%4>' 8 ' 3 '4%' 2AA' 8 3+'4%'56 ';A44@)'H'7 564 5' 6 @@ 3?'4%'76 16 '34'> 8 43)- ' ; ' C 'FF' > '), 0# 6 '* 7 '62@' ; 3' 211 548 @'54' B2>52<)'25'2AA'56 >'%42 5)' 4%' ;> 2@'23@' 7 3)' 3' 2' > 4 '23@' @ :4 5' 8233 >)'2%5 >'2' 4D A 83' ;A 3?)'4>'5623< ? : 3?'54' #4@'%4>' '?44@3 '54' 8 3 .' ; 5' B 1 2 9'25'56 '% 2 5'4%'56 'B2 4: >)'76 16'43>' 2: 4 >'72 1 A ;>25 3?'7 56' '@ 1 BA)' 76 3' 3 5 5 @'56 ' 64A9' 2 ' 1>28 35K' 25'5625'% 2 5)' 3'56 >'5623< ? : 3?)'56 9'148 8 84>25 @' 84> '25'A2>? '56 '8 >1 '4%'56 >' #4@E' @7 AA 3?' 647 : >' 16 %A9' 43' 56 >' @ A : >231 '%>48'56 ';43@2?'4%' ?9B5 > @)'2 '56 ' 62@' 8239' B2>51 A2> ' > 8 ;A 3?'5625' 3% 3 5 A9' * ' 8B4>5235' > @ 8B5 43'4%'2 ' 823< 3@'%>48 ' 3' 23@' > 3' 76 16'4 >' 2: 4 >' 72 '56 3' 2;4 5'54' 2114 8 BA 6 ' : >9' 325 >2AA9' @ > 15 @' ' @ 1 BA '5625'56 >' 231 35'1 548' 64 A@'%4>'56 '% 5 > ' 6 '2BD BA @'54'56 ' ?> 25 5'4%' : 3 ';A 3?)'23@' ; 148 '56 ' 8 84D > 2A'4%'H' 6> 5'56 >' 2 4: >' 21>%1 @'%4>'56 8.\'2 ' 3@ @'56 ' ;> 2@' ;>4< 3' 2B5A9' 34 ?6' > B> 35 @' ' ;4@9)'23@'56 '7 3 ' B4 > @'%4>56' CB> A9'%? > @' 4 5' ' ;A44@' 6 @'%4>'43>' 2A:2D 543 ' 4-+' 8 %

/ #-8 (! .'# '-/'(" ' '#$4 - . "' "' ** / " "

@ 3 , ' ' = 1*5*2)/*(*++' 1 ")' %+' ' B '((!' - 4)' %+')/ " 4 -%

C ' 16' /*' *" & *)/' 41)"')/*' 6'+<'K(*+!' %16' #'16*)/')/*& ' %+(**K!' %16' +%')/' 41)" ' *)*2!' /%)!' <"4(6' *' 1")' B%)</' B')/' & *' "1*'/"42'[

CA' %)</' %16' K2% !')/%)' *' *1)*2' 1")' '1)-')*& K)%)'"1' ')/*'+K'2')' '16**6' #$ B '((Y '10!' - 4)')/*' #(*+/' #$ B*%. ' !

C9' *' B*1)'%B% '%0%'1')/*'+*<"16')'& *!' %16' K2% *6!' +% '10!' ' & ' %)/*2!' '#')/'+' <4K!'& % '1")' K%+*' %B% ' #2" &' & *!' *R<*K)' ' 62'1.' ')!')/ ' B '((' - *' 6"1*

C?' 16' *' <%& *' %16' #" 416')/*& '%+(**K' %0%'1' ' #"2')/*'2' * *+' B *2*' /*%5

CC' 16' /*' (*#)')/*& !' %16' B*1)' %B% ' %0%'1!' %16' K2% *6')/*')/'26')'& *!' +% '10')/*' +%& *' B "26+

C:' /*1' *" & *)/' /*')"' /'+' 6'+<'K(*+!' %16' +%')/' 41)"')/*& ' (**K' "1' 1 "B!' %16')%. *' .!) 0 ?-;' - */"(6!')/*' /" 42'+' %)' /%16!' %16')/*' "1' "#' & %1'+' - *)2% *6' '1)"')/*' /%16+' "#'+'11*2+

CE' '+*!' (*)' 4+' - *' 0" '10' - */"(6!' / *' '+' %)' /%16')/%)' 6")/' - *)2% ' & *

CI' 16' 'B/'(*'/*' *)'+K%. *!'("!' 346%+!' K "1*' "#')/*')B*(5*!' <%& *!' %16' B')/' /'& ' %' 02*%)' & 4()')46*' B')/' +B "26+' %16' +)%5*+!' Q 7 #2" &')/*' </'*#'K2'*+)+' %16' *(6*2+' "#')/*' T= ` K*"K(*

CJ' "B'/*')/%)'-*)2% *6'/'&'0%5*')/*&' %' +'01!' +% '10' /"& +"*5*2' ' +/%((' .'++!')/%)' +%& *' '+' / * ' /"(6'/'&'#%+)

' 16'#"2)/B')/' /*'<%& *')"' 3*+4+!' %16' +%'6!' %'(!' & %+)*2' $' %16'. '++*6' /'& : ' 16' 3*+4+' +%'6' 41)"'P/'& !' ;2'*16!' B/*2*#"2*'%2)')/"4'<"& *[' /*1'<%& *')/* !' %16'(%'6'/%16+' "1' 3*+4+!' %16')"" .'/'& : A' 16!'-*/"(6!"1*'"#')/*& 'B/'</'B*2*' B')/'3*+4+' +)2*)</*6'"4)' /#$ /%16!' %16' 62*B' /'+' +B "26!' %16' +)24<.'%'+*25%1)'"#')/*'('' 0/' K2'*+) +!' %16' +& ")*'"(#' /'+' *%2

: 9' /*1' +%'6' 3*+4+' 41)"' /'& ' 4)' 4K' %0%'1')/ ' +B "26' '1)"' /'+' K(%<* ' 7 #"2' %((' L' =)/* ')/%)')%. *')/*' +B "26' +/%((' K*2'+/' B')/)/*' +B "26

4 %' #4@' 2> ' %;58@ @' 43' 33 >> 3?' 7 @48 ' 6 9' 123345' ; ' > D : > @' 4>' 1623? @' 6 '27% A' 35 31 ' '?43 '%4>56K \' 7 564 5' 6 @@ 3?' 4%' ;A44@' ' 34'> 8 43 \' "4: '54' 823)'+4 3 @' 7 56' 2' V 2A' %4>' ' '256 >-' 6434 >.' 56 ' 845 :)' 76 16' %> 5' 3?2? @' 8 ' 3' @ 'B2 3% A' 74><' 4%'4 >' > @ 8 B5 43)' B> :2 A' 4: >' ' 6 ' 823' % A 3?)' 23@' ' >> 3@ > ' 8 A%' 7 564 5' > 5231 .' 56 ' : > %9 3?' 56 ' 231 35' B> @ 15 43 ! ' 6 ' ;>4 ?65' 2 ' 2' A2 8 ;' 54' 56 ' A2 ?65 > \' -+' ! 03 +

T ' 0 ' %(' 0*' ' ' 6&((' A' ,' 457 56 523@ 3?' 4 >' "4>1! ' C5> 8 ' 2?439' 4%' 8 3@)' 7 '% 3@' 7 25' ' @ BA29 @' 56 ' 5D 8 4 5' %>8 3 ' 23@' %4>5 5 @ '4%' 4 A)' 23@' 56 '143 5235' 5 >8 325 43')4%' 'B>29 >' 72)' 9' 45' 9' 7 AA)' ; 5' 6 3 ' ; '@43 I' ' ; ' 8 55 @' 7 56' @ ' 84 5' B >% 15' > ?325 43' 5Z% 561=' 12A2 8 5)' 76 16' ' % A5' 4' 21 5 A9)' 23@' @ B> 125 @' 4' 2>3 5A9' '>48' ' C28BA')7 ' 64 A@' A 2>3' 7625' 143@ 15' 7 ' 4 ?65' 54' 4 ; >: ')76 3' @ 5> ' 23@' 8 >9' 4: >52<' ' ' 2>' 345' 43A9' 2AA47 @)' ; 5' 7 '2>' 314 >2? @' ; 9' 7625' ' @ @)' 54' B4 >' %4>56' 4 >' B 5 D 5 43 ' 54' 56 ' @ >43 ' 4%' #>21)' %4>' 6 AB' 3' 5 8 ' 4%' 3 @ ' ' 2>' B >8 55 @' 54' B>29' %4>' 56 '> 84:2A' 4%' 4 >' 12A2 8 5 ' 7 56' 2>3 5D 3 ' 23@' 7 56' % >:4 >K' 7 ' 829' 8 BA4>' 56 ' A 8 ?659' 5625' 56 ' ; 55 >' 1 B' 4%' 2%%A 15 43' 829' B2 ' 6 7%>48' '.' ; 5' 5A ' 1431A 43' 8 5' 2A729 ' ; ' @ ' 28 ' 76 16' ' 72?)' 9' 45' 2 ' ' 7 AA)' ; 5' 2 ' 64 ' 7 A5 \' %' 43 ' 56 3?' 7 ' 829' ; ' 2 > @)' 5625' %' 56 ' : A ' 76 16' 4: >76 A 8' ' 2> ' 345' > 84: @)' 9 5' 4 >' BBA 125 43 ' 62AA' ' 345' ; ' : 2 3.' 7 ' 62AA' 25' A 2 5' ; ' 32;A @' 54' ; 2>' 56 8 ' 3@' 564 ?6' 7 ' 8 5' 345' CB 15' 54' 62: ' 23' 23? A' 35' %>Z=' 6 2: 3' 54' BB4>5')' 2 ' 72 ' @43 ' 54' *)' " < ' CC ' N)E' 9 5' 7 ' 829' CB 15)' 23@' CB 15' 7 56' 143% @ 31)' 5625' 2' 84 ' 5623' 23? A 1<' 48%4>5 >)' : 3' 56 ' B > 5' 4%' > 56)' 7 AA' 6 @' ' 62A 3?' 3D %A 31 ' 4: >' 4 >' 4 A)' 23@' B> >: ' ' %>48' 3< 3?' : 3' 3@ >' 56 ' : > 5' 5> 2A ' -+' *% $ +

6 ' 35 8 35 ' 23@' BBA 125 43)' 52;A ' 54' 2AA' 6 823' ; 3? ' 3' 2' 525 ' 4%' @ 5>)' 2> ' 6 > ' CB> @' 3' 2' % 7' 74>@ ' ; 9' 8' 764' 72 ' 5A ' ?> 25 5' C28BA ' 25' 431 ' ; 4 ' 4%' %% > 3?' 23@' 4%' ; 8 43 ' ' 764' 72 ' H' 3' 56 ' ; ? 33 3?' 7 56' #4@)' 23@' 72 ' #4@)I' ; 3?' ; 148 ' 823)' 23@' 2 ; 4 5' 54' ; ' ; 5>29 @)' %4> 2< 3)' ;A2 B6 8 @)' 23@' 1> 1% @)' 564 ?6' ' 14 A@' 62: ' 148 823@ @' 2AA' 56 ' 64 5 ' 4%' 6 2: 3)' 55 > ' ; 5' 56 ' 74>@)' H' ' 9' '256 >)' %' 5' ; 'B4 ;A)' A 5' 5A ' 1 B' B2 '%>48' K' 3 : >56 A ' 345' 2 ' ' 7 AA)' ; 5' 2 ' 64 ' 7 A5 I' ! %+'), 0+

6 ' %4>8 >' B2>5' 4%' 4 >' "4>@ ' B 5 5 43)' %' 5' ; ' B4 ;A)' A 5' 5A ' 1 B' B2 '%>48')I' '56 ' : 4 1 ' 4%' 6 823' 325 >)' 9 A@ 3?' 54')3'"+*% A >? ' 7 6 16' #4@)' 7 64' BA235 @' 56 8' 3' 823)' 123345' @ 2BB>4:)' 7 6 3' @ A9' > ? A25 @' 6 ' A255 >' B2>5' ' 56 ' : 4 1 ' 4%' 56 ' 28 ' 6 823' 325 >)' 2114>@ 3?' 54' 5625' B> 31 BA ' 4%'> 2 43' 23@' @ 59)' 7 6 16' 5' 64 3@' 54' 4 >' @ >)' 16 1< ' 23@' 1435>4A ' 42>' B2 43 ' 23@' 31A 325 43)' 23@' > B> 35 ' 5' 2 ' 2' ; 148 3?' 23@' 3 1 2>9' 215' 4%' 4; @ 31)' 54' > ?3' 4 > A: ' 35 > A9' 54' 56 ' 8 >1 % A' B>4: @ 31 ' 4%' #4@')' 764' 72 ' 3341 31 ' 5 A%' @ @' B>29' 54' ; ' @ A : > @' >48 ' 2%%A 15 43)' 628)' 23@' ; 4@ A9 %% > 3? .' 2 @' 7)' 7 564 5' 239' > %A 15 43' 43' 4 >' : >5)' 829' @4' 56 ' 28 ' & 5' 7 ' 8 5' 2A729 ' > 8 8 ; >' 4' 54' @4)' 7 56' 5A 25' A 8 525 43' 23@' > >:)' 4%' 76 16' 4 >' ; A @' 2 5 >' 62 ' A %5' ' 4' 2@8 >2; A ' 2' B255 >3 ' 0+ 03*- +

N/' F 3 ' &%& ' &0, ,' & ' &((&0) ' 4$' Q *' 8 8 @ 25 A9' 2%5 >' 5625' 4 >' "4>@' 62@' @ > @' ' @ 1 BA ' 54' 72516' 23@ B>29)' 5625' 56 9' 8 ?65' 345' ; ' 4: >148 ' ; 9' 56 ' : > ' 5> 2A ' 5625' [272 5 @' 56 8 ' ' 2@@)' % A 3?' %4>' 56 ' 8 %>8 59' 4%' 6 823' 325 >)' 9' 56 ' B > 5' 3@ @' ' 7 AA 3?)' ; 5' 56 ' %A 6' ' 7 2<.-' 5625' .' ' 80*6' 94 >' 6 2>5 ' 2> ' > ?65)' 23@' 94 >' 35 35 43 ')**,'.' ; 5' 56 ' 7 2<D 3 ' 4%' 94 >' %>2 A' 325 > ' 4: >B47 > ' 94 >' ; 5'> 4A 518 ' -+' *% $ + '? 35A ' > ; < ' ' 8 C @' 7 56' 2' ?>21 4 ' 2B4A4?9' %4>' 56 ' 7 2<3 ' 23@' 3% >8 59' 4%' 6 823' 325 >=' %+' ! (+

NO' T ' (-' *0' 0* ' Q1 RQ ' 8 23 ' &9' 94 >' 72516 3?' 9 ' 123' 6 7' 34' % >56 >' < 3@3 ' 4>' 1431 >3' %4>')' 2 ' ' 28' 347' 54' ; ' @ A : > @' 354' 56 ' 623@ ' 4%' 564 ' 7 6 ' 2C ' 8 B625 12AA9' 59A @' 33 > ' %+' 3& 4/+

NL' T + 3* * ' %' ' 3 ((' 8& B ' 5' 72 ' 56 ' 1 548' 4%' 56 ' * 7 ' 56 ' 54' 2A 5 ' 216' 456 >)' 2 ' 2' 54< 3' 4%' > ?2>@)' 4>' 2%5 >' 2' A43?' 2; 31)' Q1 .' 2 ' % AA9' 2BB 2> ' %>48' " < ' : ' N0 ' %* &$ +

0 ZT 'W%& , ' 6(% *% ' % ' 3*$' .* ' ' 8 ' 54' 62: ' B 5 56 ' G 543' 54' * @2)' 345' 2 ' @ > 3?' 2' > BA9) ; 5' 54' 5> < ' 56 ' 5>2 54>' 7 56' @ B >' 143 : 15 43' 4%' 6 ' ? A5 ' -+' 5 00+

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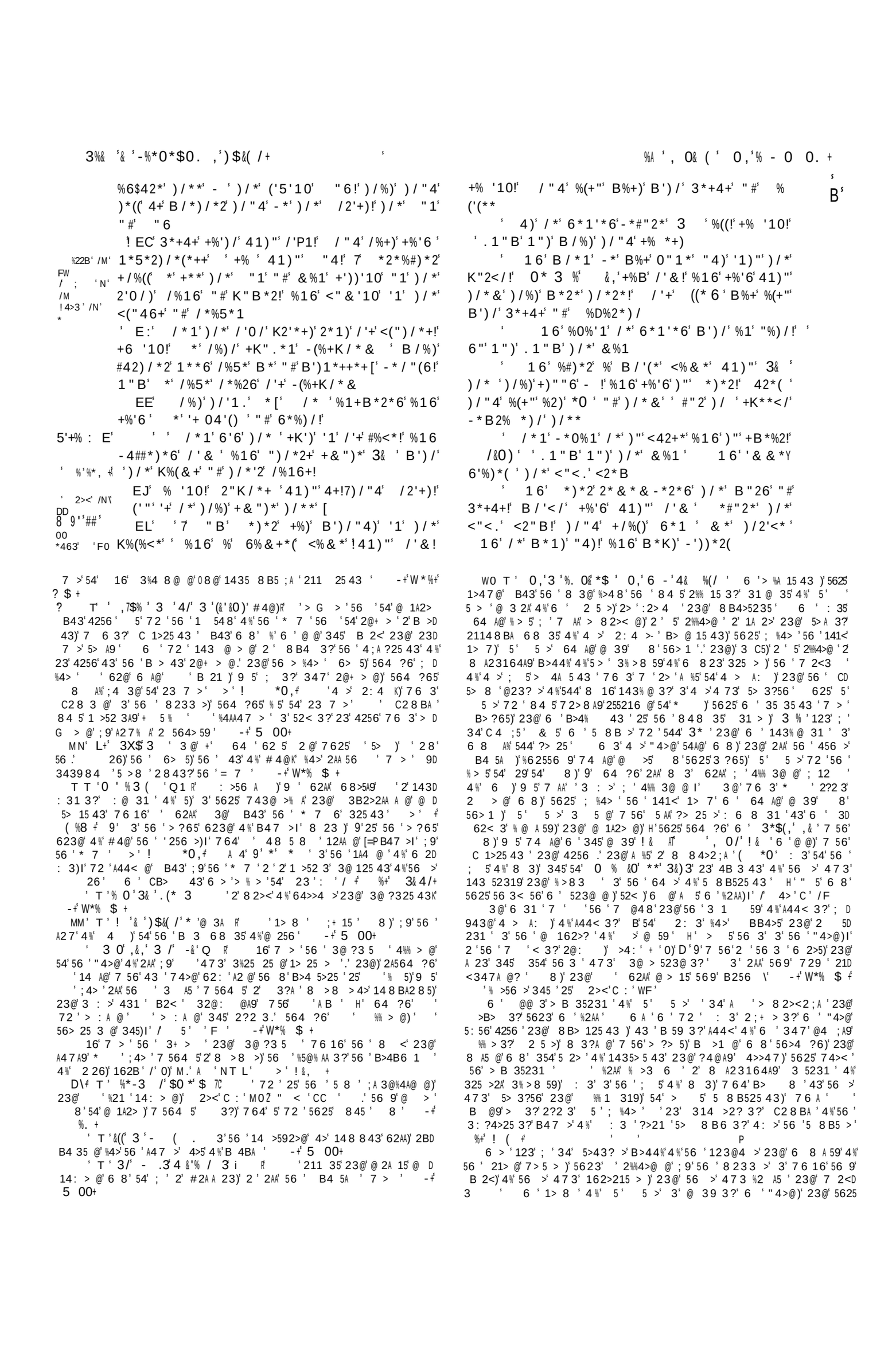

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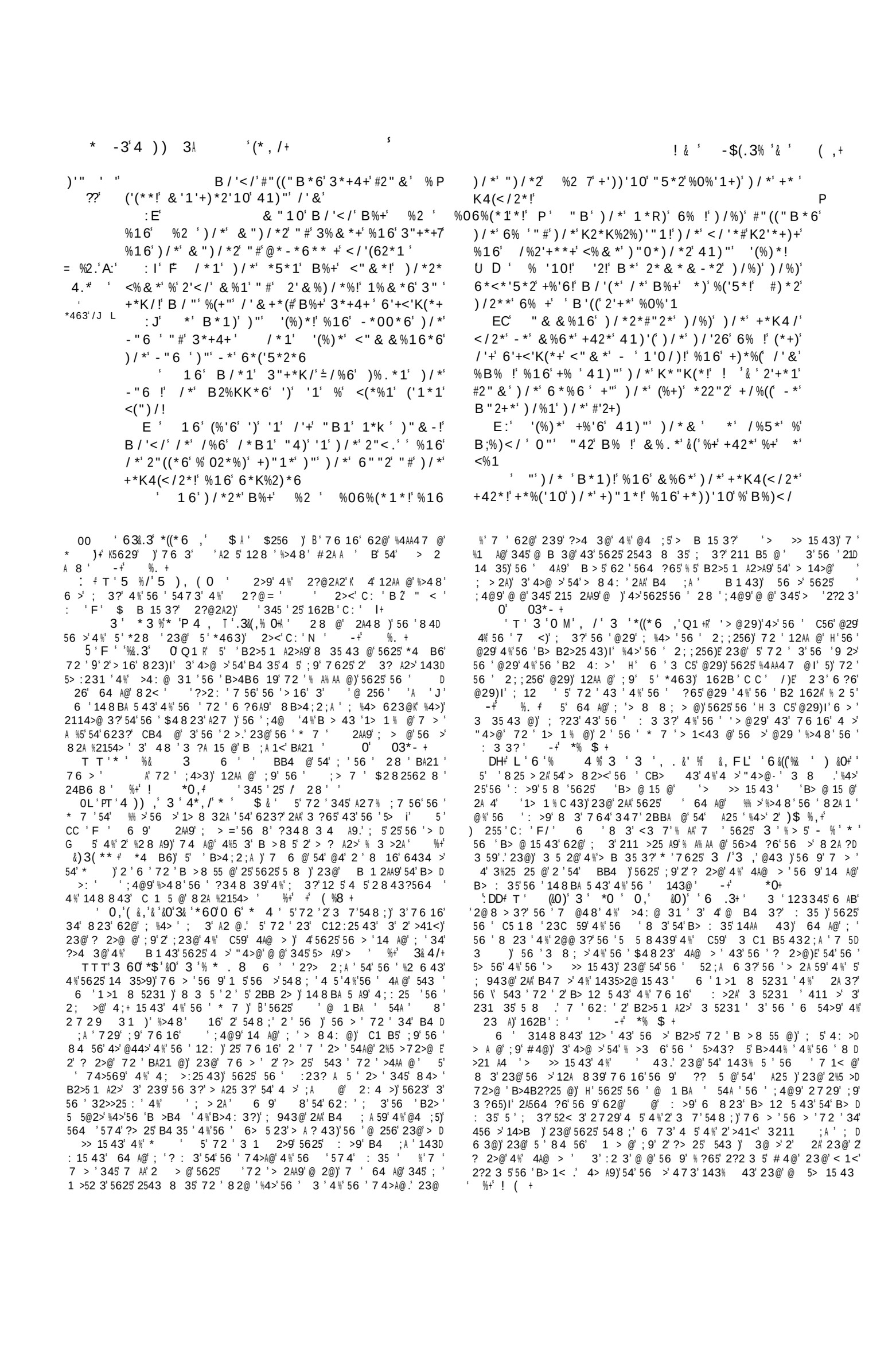
Painted by Le Brun.

THE CRUCIFIXION.

Mat. C. 27. V. 50.

Engraved by Geo. Cooke.

London, Published by the Proprietors, Cadell & Davies, Strand, June 1st 1802.



Painted by Annibal Carracchi.

Engraved by H. Moses.

AN ANGEL DECLARES THAT THE LORD IS RISEN.

Matthew ch. 28. ve. 6.

Published by the Society for promoting Christian Knowledge Sept.r 1.1865.

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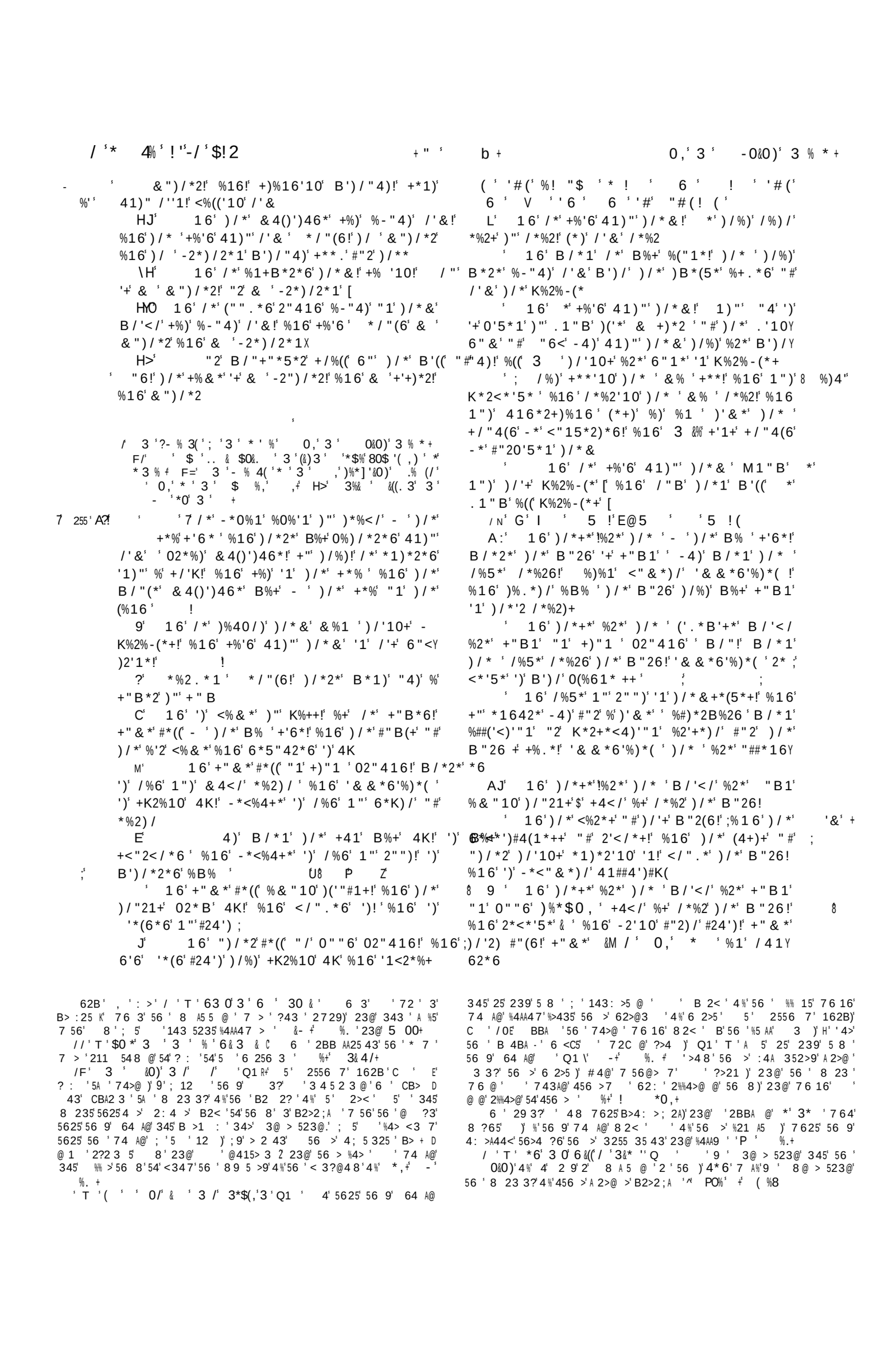

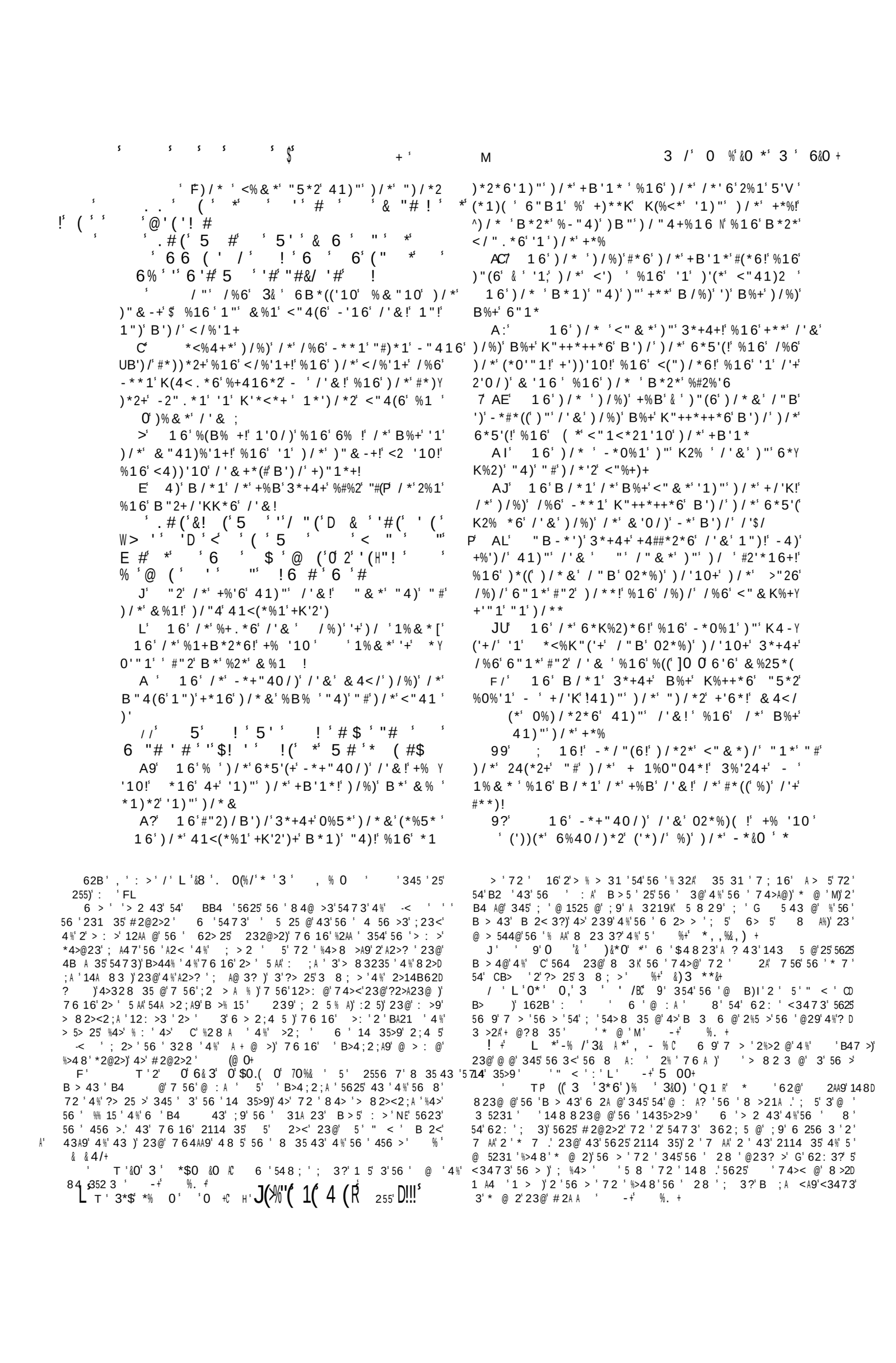

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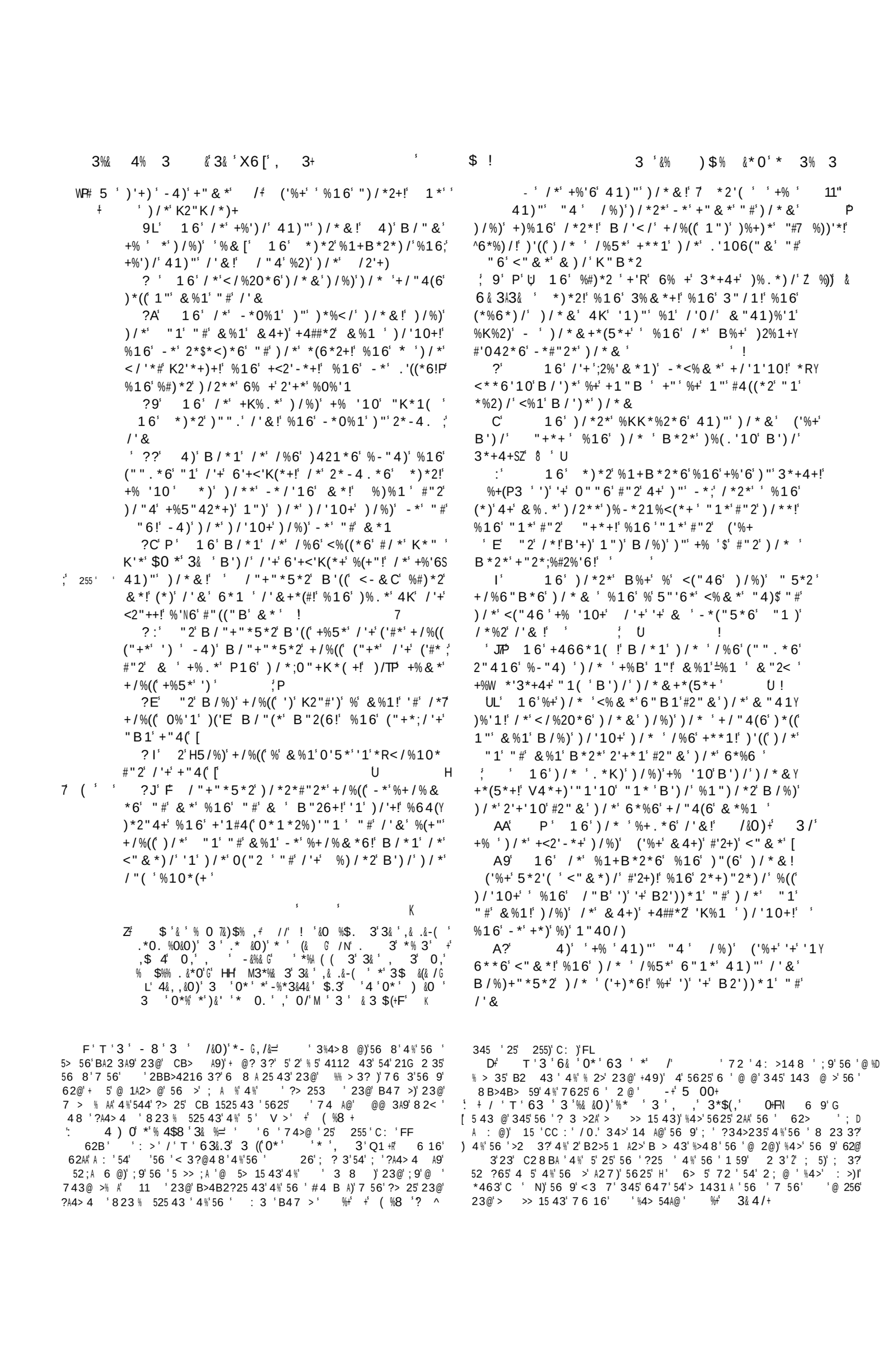

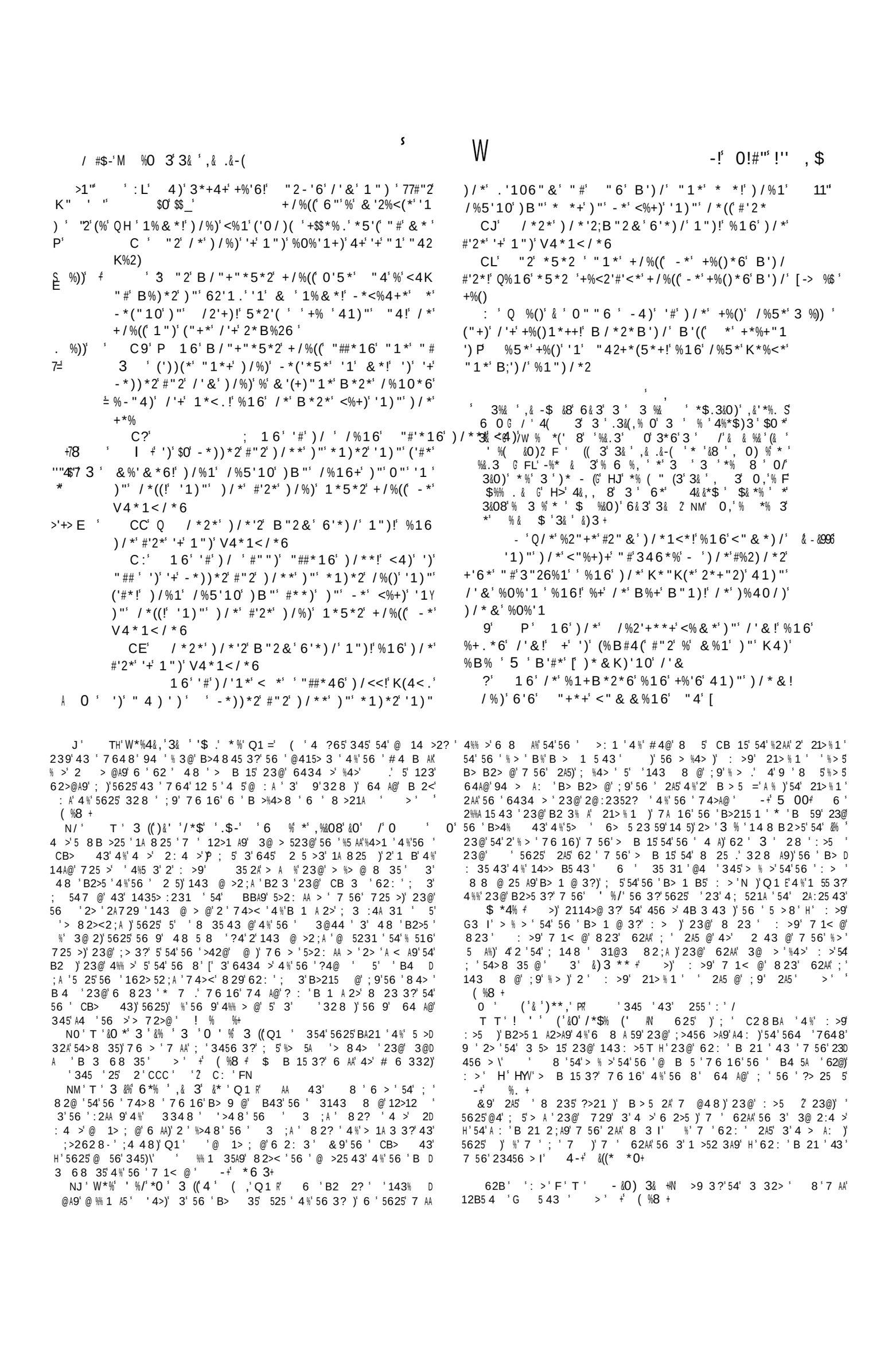

Painted by B. West P.R.A. *Engraved by H. Moses.*

YOUNG CHILDREN BROUGHT TO CHRIST.

Mark chapter x. v.

Published by the Society for promoting Christian Knowledge, July 1.1816.

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9A' / *1'3*+4+' -*/"(6'10' / '&' ("5*6' / '&!' %16' +%'6' 41)"' / '&' 1*') / '10') / "4'(%<.*+) ' 0"') / ' % !' +*((' B / %)+"'*5*2') / "4' / %+)!' %16' 0'5*')"') / *' K"'"2!' %16') / "4' +/%()' / %5*')2*%Y +42*' '1' / *%5*1' %16' <"&*!')%.*' 4K') / *' <2"++!' %16'#"((" B' &*

99' 16' / *' B%+' +%6' %)') / %)' +% '10!' %16' B*1)' %B% '02'*5*6' ' #"2' / *' / %6' 02*%)' K"+Y +*++'"1+

9?' P' 16' 3*+4+' (" ".*6'2"416'%-"4)!' %16' +%') / ' 41)"' / '+' 6'+<'K(*+' " B' / %26(' +/%(( ) / * ') / %)' / %5*' 2'</*+' *1)*2' '1)"') / *' .'10Y 6"&' "#' " 6X

9C' 16') / *' 6'+<'K(*+' B$*2*' %+)"1'+/*6' %) / '+' B"26+' 4)' 3*+4+' %1+B*2*) / ' %0%'1!' %16' +%') / ' 41)"') / *&!' / '(62*1!' / "B' / %26' '+' ')' #"2') / *&') / %)')24+)' '1' 2'</*+!)"' *1)*2' '1)"') / *' .'106"&' "#' "6X ' !

9:')' '+' *%+'*2'#"2'%' <%&*('))"' 0"') / 2"40/') / *' * *' "#'%' 1**6(*!') / %1'#"2'%' 2'</' &%1')"' *1)*2' '1)"') / *' .'106"&' "#' "6

9E' 16') / * ' B*2*' %+)"1'+/*6' "4)' "#'&*%Y +42*!' +% '10' %&"10') / *&+*(5*+!' / "') / *S' <%1'-*' +%5*6[

9I' 16'3*+4+' ("".'10' 4K"1') / *&' +%') / !' ') / ' &*1' & ' & ' '&K"++'-(*!' -4)' 1")' B') / ' "6 ' #"2' B') / ' "6' %((') / '10+' %2*' K"+S' +'-(*

9J' P' ; / *1' *)*2' -*0%1')"' +% ' 41)" FW 0' 255' /J'

/ / ' T ' 3 ((-$' 6 /' 3& ' 6& F≒ 5' '> 82><2;A)'5625' 5' 2><' 6 >)'23@' 5'" < '25'16'C: ' /L)' 8 35 43'34' C1 B5 43'82@ '54'56 ' B> 1 B5.'23@' 5' 2 A)'25'/' 4>' : ' /)' / /)' 8 '54'@4'56 ' 28 .' 76 > 2 ' 5' 2556 7)';456' 3'162B': ' F)'23@' 3' M&M+' J)'62 '2@@ @)' 9' C1 B5' 5'; '%4>'%4>3 125 43)I' 76 16' 3'2' 7 % ' '2@ A5 >9 ' 6 ' @ %% > 31 ' ' : >9' 8 B4>5235.'; 5)' 2 ' 5' 2556 7' ' ? 3 >2AA9' 84>' C215'23@'B> 1 ' 3' 825 > 2A' B4 35 ' 5623' 56 ' 456 >' : 23D ? A 5)' 5' 'B>4;2;A '5625'56 ' C1 B5 43)' 76 16'6 '62 ' 3 >5 @)'* ' 54'; ' 3@ > 544@)'564 ?6' 345' CB> @)' 3'56 ' 14>> B43@ 3?' B2 2? '4%' 5' 2><'23@' 5'" < ' -+' %. +

J+' L '& ' ' 6* 0' 3 ((-$' 6 /' 3 % 30 4 0, ' 6 'B>215 1 ' 4%'@ :4>1 3?'56 '6 ;23@)' 372>>235 @' ;9'56 'A27)'62@' ; 3)' 2 ' *4 B6 ' 3%4>8 ')' 35>4@ 1 @' ;9' 2A48)' 5 >' 4%' >4@' 56 ' #> 25)' 764' 35'2' AA'4%'@ :4>1 '54'6 >' 6 ;23@.' 76 16' C28BA ' 72 '2%5 >72>@ '%4AA47 @' ;9'456 > ' &9'A27' 5'72 '56 '6 ;23@-' B> >4?25 : ' 54' @ 4A: ' 56 ' 82>> 2? .' 23@' 56 ' ; AA' 4%'@ :4>1))' 76 16' 6 ' 72 ' 3+4 3 @'54' ? : ' 6 >)' 72 '54' >: ' 2 ' 23' : @ 31 ' 5625' 6 ' 62@' 345'@ >5 @' 6 >' 6 ;23@)' ; 55625' A '72 '@ 8 @' ;9'6 8)' 23@' 72 '143 G 35A9'%> ' > ' -4 ((+

/ ' T ' 3& ',& .&-('% 4$8 ,' 3* ' 3 +4%*$)3' 3 +' 6 '@ 1D BA 'B>4;2;A9'564 ?65)' 5625)' 2 '56 >' 2 5 >' 128 ' 354'56 ' 74>A@' 54' 3 5> 15' 8 3' 3'56 ' 84 5' 8 7 354 ' 1431 >3)' 54' CBA2 3'23@ "'p'

8 B>4: '56 'A27)'54'12AA' 33 > '54'> B 35231)'54' 6 7'%4>56' ' B47 >' ;9' 74>< 3?' 8 >21A)' 5'14 A@'345'; 'B>4B >'%4>' 4'?> 25'2' >4B6 5)'56 ' 26)'56 ' 43'4%'#4@)'54'143@ 1 3@'54'= 3@' ' :2A 2;A '5 8 ' 3'A29 3?'623@ '43'94 3?'16 A@> 3 ' %+' *% &O+

/N+ * ' $.3'& ' 3 '8&0),* 'Q1 ' 625')' 764 : >' 7 AA'; ' 9' @ 1BA)' 8 5' 8 ;>21 '6A9'@415> B ' 7 56'@ ' B > 59'23@' 8BAD 1 59'4%'2' 16 A@' -+' 5 0&&# 6 ' < 3?@48'4%'#4@' 6 > ' 8 23 ' 56 ' 6 >16'4%' 6> 5)' 354' 76 16'56 9' 764'2> ' 2@8 55 @'2> ' 3D 5 5A @)' %'56 9'4; >: ' 'B> 1 B5)'54' 5 >32A'A % ' 3'56 ' 74>A@'54' 148 K' 54' 35 >' 354'56 ' < 3?@48'4%'#4@' ' 54'; ' 2'5> ' @ 1BA ' 4%' * ' 6> 5' %+' % &O+

' T ' % $,'0* F≒ 6 ' CB> 43'6 > '4%@ %>2 @ 3?' 8 ' 54'> % >'54'56 ' 7 5664A@ 3?)' 3' 239' 729)'%>48'23456 >'5625' 76 16' '6 ' @ ' -+' %. +

F/ T '4A> @' 8)R' BB>4: @'56 '?>214 '; ? 33 3? ' 3663)' %+' ! *0,+ BB>4: @' 4%'6 8'7 56' CB> 43 ' 4%'4 572>@' < 3@3 '23@'%> 3@ 6 B'%4>' 6 '12> '4%'6 'B2> 35)'23@'456 >'?44@' @ @ ' %+' &)3 **

FN' T *%'3 ' 3 ' %$ '&0'%%.3 A ' '345 '25' 255'C C'F)' 6 '74>@)'? : 3' ;9' 5' 2><'43A9)'23@'345';9'56 '456 >' :23D ? A 5)'? : ' 2' 1A 2>' 35 >B> 525 43' 4%'56 ' 764A ' B2 2? ' 30+ 6.* .+

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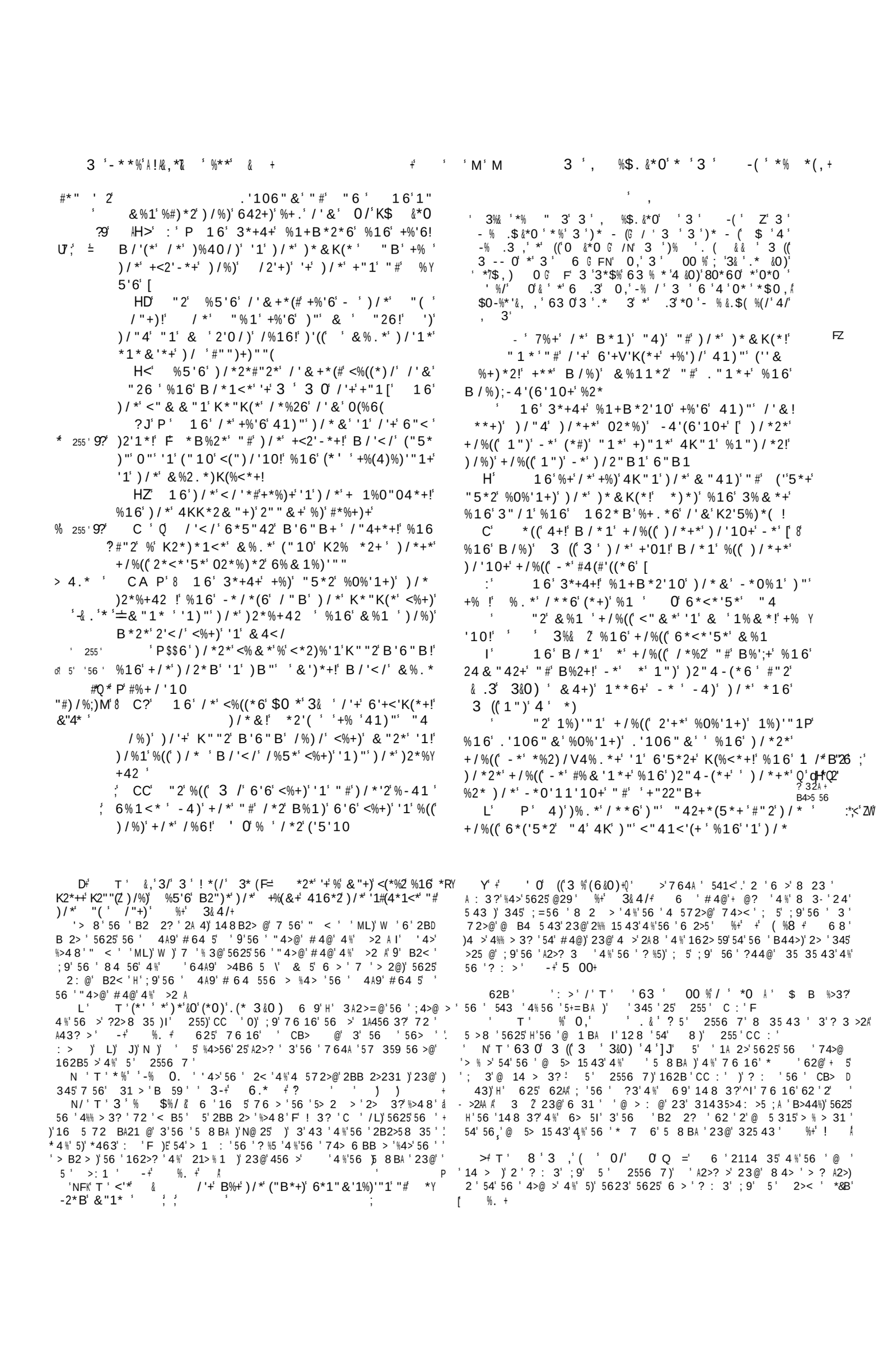
334 B"416*6ʻ 3& ʻ '1ʻ)/*ʻ /*%6!ʻ %16ʻ +*1)ʻ 3& ʻ %B% ʻ+/%&*#4((ʻ /%16(*6ʻ ;ʻ !ʻ !
:ʻ 16ʻ%0%'1ʻ /*ʻ +*1)ʻ%1")/*2ʻ$ʻ %16ʻ /'&ʻ)/* ʻ.'((*6!ʻ%16ʻ&%1 ʻ")/*2+ʻ -*%)'10ʻ+"&*!ʻ %16ʻ.'(('10ʻ+"&*
Eʻ %5'10ʻ *)ʻ)/*2*#"2*ʻ "1*ʻ+"1!ʻ/'+ʻ B*((ʻ -*("5*6!ʻ/*ʻ +*1)ʻ/'&ʻ%(+"ʻ (%+)ʻ 41)"ʻ)/*&!ʻ +% '10ʻ /* ʻ B'((ʻ 2*5*2*1<*ʻ & ʻ+"1
Iʻ 4)ʻ)/"+*ʻ /4+-%16&*1ʻ +%'6ʻ %&"10ʻ)/*&+*(5*+ʻ /'+ʻ '+ʻ)/*ʻ /*'2ʻ ʻ <"&*!ʻ (*)ʻ4+ʻ .'((ʻ /'&!ʻ%16ʻ)/*ʻ'1/*2')%1<*ʻ+/%((ʻ -*ʻ"42 +
Jʻ 16ʻ)/* ʻ)""ʻ.ʻ/'&!ʻ%16ʻ.'((*6ʻ3& ʻ%16ʻ <%+)ʻ3& ʻ"4)ʻ"#ʻ)/*ʻ5'1* %26
Lʻ /%)ʻ+/%((ʻ)/*2*#"2*ʻ)/*ʻ ("26ʻ "#ʻ)/*ʻ 5'1* %26ʻ6"ʻ[/*ʻ '((ʻ<"&*ʻ%16ʻ6*+)2" ʻ)/*ʻ /4+-%16&*1!ʻ %16ʻ B'((ʻ 0'5*ʻ)/*ʻ!5'1* %26ʻ 41)"ʻ ")/*2+
;A ʻ 16ʻ/%5*ʻ *ʻ1");2*%6ʻ)/'+ʻ+<2'K)42*ʻ
[ʻ 2Aʻ//Lʻ ;8 /*ʻ+)"1*ʻB/'</ʻ)/*ʻ -4'(6*2+ʻ 2*$*<)*6ʻ'+ʻ -*<"&*ʻ)/*ʻ/*%6ʻ"#ʻ)/*ʻ <"21*2
AAʻ /'+ʻ B%+ʻ)/*ʻ "26 +ʻ 6"'10!ʻ%16ʻ')ʻ'+ʻ &%25*((" 4+ʻ'1ʻ "42ʻ* *+ʻ[
A9ʻ 16ʻ)/* ʻ+"40/)ʻ)"ʻ(% ʻ/"(6ʻ"Kʻ/'&!ʻ -4)ʻ#*%2*6ʻ)/*ʻ K*"K(*ʻ#"2ʻ)/* ʻ.1*Bʻ)/%)ʻ /*ʻ /%6ʻ+K".*1ʻ)/*ʻ K%2%-(*ʻ %0%'1+)ʻ)/*&ʻ %16ʻ)/* ʻ(*#)ʻ/'&!ʻ%16ʻB*1)ʻ)/*'2ʻB%
ʻ 255ʻFF'ʻ + A?ʻ [ʻ;P 16ʻ)/* ʻ+*16ʻ41)"ʻ/'&ʻ<*2)%'1ʻ "#ʻ)/*ʻ /%2'+**+ʻ%16ʻ"#ʻ)/*ʻ *2"6'%1+!ʻ)"ʻ <%)</ʻ/'&ʻ'1ʻ3&ʻB"26+
AC 16ʻB/*1ʻ)/* ʻB*2*ʻ<"&*!ʻ)/* ʻ+% ʻ 41)"ʻ/'&ʻ %+)*2!ʻ B*ʻ .1"Bʻ)/%)ʻ)/"4ʻ%2)ʻ)24*!ʻ%16ʻ<%2*+)ʻ#"2ʻ1"ʻ&%1ʻ#"2ʻ)/"4ʻ2*ʻ 0%26*+)ʻ1")ʻ)/*K*2+"1ʻ"#&*1!ʻ-4)ʻ)*%<*+)ʻ)/*B% ʻ"#ʻ "6ʻ'1ʻ)24)/ ʻ +ʻ')ʻ(%B#4(ʻ)"ʻ 0'5*ʻ)2'-4)*ʻ)"ʻ *+%2!ʻ"2ʻ1")ʻ[
A:ʻ /%((ʻB*ʻ0'5*!ʻ"2ʻ+/%((ʻB*ʻ1")ʻ0'5*ʻ[4)ʻ/*!ʻ.1"B'10ʻ)/*'2ʻ/ K"<2'+ ʻ!+%'6ʻ41)"ʻ)/*&!ʻ / ʻ)*&K)ʻ *ʻ &*[ʻ-2'10ʻ&*ʻ AA% K*11 ʻ!)/%)ʻ ʻ&% ʻ+**ʻ&+
ʻ, 2A 3?ʻ 4%ʻ4 >ʻ>44ʻ 3 9ʻ : 3ʻ B 31ʻ62A%D B 339)ʻ ʻ +: 255)ʻ \ʻ + AEʻ 16ʻ)/* ʻ-2"40/)ʻ&+ʻ 16ʻ/*ʻ+%')/ʻ 41)"ʻ)/*&ʻ /"+*ʻ&ʻ)/'+ʻ'&%0*ʻ%16ʻ+4K*2Y +<2'K)'"1ʻ[16ʻ)/* ʻ+%'6ʻ41)"ʻ/'&!ʻ *+%2 + AIʻ 16ʻ3*+4+ʻ%1+B*2'10ʻ+%'6ʻ41)"ʻ)/*&ʻ *16*2ʻ)"ʻ *+%2ʻ)/*)/'10+ʻ)/%)ʻ%2*ʻ *+%2 +!ʻ %16ʻ)"ʻ "6ʻ)/*ʻ)/'10+ʻ)/%)ʻ%2*ʻ "6 +ʻ 16ʻ)/* ʻ&%25*((*6ʻ%)ʻ/'&
0ʻ 255ʻFF'ʻ F AJʻ P /*1ʻ<"&*ʻ41)"ʻ/'&ʻ)/*ʻ %6Y 64<**+!ʻB/'</ʻ+% ʻ)/*2*ʻ'+ʻ1"ʻ2*+422*<)'"1ʻ %16ʻ)/* ʻ%+.*6ʻ/'&!ʻ+%$610!
AL %+)*2!ʻ "+*+ʻ B2")*ʻ 41)"!ʻ4+!ʻ #ʻ%ʻ &%1 +ʻ-2")/*2ʻ6'*!%16ʻ(*%5*ʻ3& ʻB'#*ʻ4 3&0,ʻ 3& ʻ%16ʻ(*%5*ʻ1"ʻ</'(62*1!)/%)ʻ/'+ʻ-2")/*2ʻ +/"4(6ʻ)%.*ʻ/'+ʻB'#*!ʻ%16ʻ2%'+*ʻ 4Kʻ+**6ʻ42Sʻ)"ʻ/'+ʻ-2")/*2

9 ʻ "Bʻ)/*2*ʻB*2*ʻ+*5*1ʻ-2*)/2*1ʻ %16)/*ʻ#'2+)ʻ)""ʻ.ʻ%ʻB'#*!ʻ%16ʻ6 '10ʻ(*#)ʻ1"ʻ+**6ʻ 0+
9Aʻ 16ʻ)/*ʻ+*<"16ʻ)""ʻ.ʻ/*2!ʻ%16ʻ6'*6!ʻ 1*')/*2ʻ (*#)ʻ/*ʻ %1ʻ+**6ʻ %16ʻ)/*ʻ)/'26ʻ ('.*B'+*
99ʻ 16ʻ)/*ʻ+*5*1ʻ/%6ʻ/*2!ʻ%16ʻ(*#)ʻ1"ʻ +**6ʻ(%+)ʻ"#ʻ%((ʻ)/*ʻB"&%1ʻ6'*6ʻ%(+" 9?ʻ 1ʻ)/*ʻ2*+422*<)'"1ʻ)/*2*#"2*!ʻB/*1ʻ)/*ʻ+/%((ʻ2'+*!ʻB/"+*ʻB'#*ʻ+/%((ʻ+/*ʻ/*ʻ"#ʻ)/*&ʻ[#"2ʻ)/*ʻ+*5*1ʻ/%6ʻ/*2ʻ)"ʻB'#*
9C 16ʻ3*+4+ʻ%1+B*2'10ʻ+%'6ʻ41)"ʻ)/*& "ʻ *ʻ1")ʻ)/*2*#"2*ʻ *22!ʻ-*<%4+*ʻ *ʻ.1"Bʻ 1")ʻ)/*ʻ +<2'K)42*+!ʻ 1*')/*2ʻ)/*ʻ K"B*2ʻ "# "6[!
9:ʻ "2ʻB/*1ʻ)/* ʻ+/%((ʻ2'+*ʻ#2"&ʻ)/*ʻ 6*%6!ʻ)/* ʻ1*')/*2ʻ&%22 !ʻ1"2ʻ%2*ʻ0'5*1ʻ'1ʻ &%22'%0*ʻ ʻ-4)ʻ%2*ʻ%+ʻ)/*ʻ%10*(+ʻB/'</ʻ%2*ʻ '1ʻ/*%5*1
9Eʻ 16ʻ%+ʻ)"4</'10ʻ)/*ʻ6*%6!ʻ)/%)ʻ)/* ʻ 2'+*ʻ /%5*ʻ *ʻ1")ʻ2*%6ʻ'1ʻ)/*ʻ-"".ʻ"#ʻ "+*+!ʻ /"Bʻ'1ʻ)/*ʻ-4+/ʻ "6ʻ+K%.*ʻ41)"ʻ/'&!ʻ+% Pʻ '10!ʻ ʻ ʻ)/*ʻ "6ʻ"#ʻ -2%/%&!ʻ%16ʻ)/*ʻ "6ʻ "#ʻ +%%<!ʻ%16ʻ)/*ʻ "6ʻ"#ʻ3%<"-ʻ[
9Iʻ *ʻ'+ʻ1")ʻ)/*ʻ "6ʻ"#ʻ)/*ʻ6*%6!ʻ-4)ʻ)/*ʻ "6ʻ"#ʻ)/*!('5'10ʻ *ʻ)/*2*#"2*ʻ6"ʻ 02*%)(ʻ*22
9Jʻ Pʻ F 16ʻ"1*ʻ"#ʻ)/*ʻ+<2'-*+ʻ<%&*!ʻ%16 /%5'10ʻ/*%26ʻ)/*&ʻ2*%+"1'10ʻ)"0*)/*2!ʻ%16ʻ K*2<*'5'10ʻ)/%)ʻ/*ʻ/%6ʻ%1+B*2*6ʻ)/*&ʻB*((!ʻ %+.*6ʻ/'&ʻ /'<ʻ/'+ʻ)/*ʻ#'2+)ʻ<"&&%16&*1)ʻ "#ʻ%((ʻ[
9Lʻ 16ʻ3*+4+ʻ%1+B*2*6ʻ/'&ʻ /*ʻ#'2+)ʻ"#ʻ %((ʻ)/*ʻ<"&&%16&*1)+ʻ&ʻ *%2!ʻ +2%*(/*ʻ "26ʻ"42ʻ "6ʻ'+ʻ"1*ʻ "26
Jʻ 16ʻ)/"4+/%(("5*ʻ)/*ʻ "26ʻ)/ ʻ "6ʻ ')/ʻ%((ʻ)/ ʻ/*%2)!ʻ%16ʻB')/ʻ%((ʻ)/ ʻ+"4(!ʻ %16ʻB')/ʻ%((ʻ)/ ʻ &'16!ʻ%16ʻB')/ʻ%((ʻ)/ ʻ +)2*10)/ʻ)/'+ʻB')/*ʻ#'2+)ʻ<"&&%16&*1)
'ʻ 16ʻ)/*ʻ+*<"16ʻ&ʻ('.*!ʻ0 (/ʻ)/'+!ʻ /"4ʻ+/%((ʻ("5*ʻ)/ ʻ1*'0/-"42ʻ%+ʻ)/ +*(# /*2*ʻ'+ʻ1"1*")/*2ʻ<"&&%16&*1)ʻ02*%)*2ʻ)/%1ʻ)/*+*
7ʻ ?9ʻ 16ʻ)/*ʻ+<2'-*ʻ+%'6ʻ41)"ʻ/'&ʻ *((! %+)*2!ʻ)/"4ʻ/%+)ʻ+%'6ʻ)/*ʻ)24)/ ʻ#"2ʻ)/*2*ʻ '+ʻ "1*ʻ "6 ʻ%16ʻ)/*2*ʻ'+ʻ1"1*ʻ")/*2ʻ-4)ʻ/*
??ʻ 16ʻ)"ʻ("5*ʻ/'&ʻB')/ʻ%((ʻ)/*ʻ/*%2)! %16ʻB')/ʻ%((ʻ)/*ʻ416*2+)%16'10!ʻ%16ʻB')/ʻ %((ʻ)/*ʻ+"4(!ʻ%16ʻB')/ʻ%((ʻ)/*ʻ+)2*10)/!ʻ%16ʻ)"ʻ("5*ʻ3& ʻ1*'0/-"42ʻ%+ʻ/'&+*(#!ʻ'+ʻ &"2*ʻ)/%1ʻ%((ʻB/"(*ʻ-421)ʻ"##*2'10+ʻ%16ʻ+%<2'Y #'<*+ʻ ! !
HYʻ 16ʻB/*1ʻ3*+4+ʻ+%Bʻ)/%)ʻ/*ʻ%1+B*2Y *6ʻ6'+<2**)(!ʻ/*ʻ+%'6ʻ$41)"ʻ/'&ʻ /"4ʻ%2)

62B=ʻ ʻ: >'FL'T'&8 % I' 6'B>31B2A)ʻ\'56'?>25)I' 255'CC ʻ D+ / 3%'&'0*0ʻ*3%.* 0, 0')% %ʻ3 0ʻ 3 ʻ 625ʻ)'56>'ʻ '3456 3?ʻ 3'>A?43'4%ʻ2'6?6 >ʻ4;A?25 43'5623

5%5 '574'B>1 B5 ʻ AA'56'@ 5 '4%'>A?43'8 5';'?4:>3@ʻ ;9'56 '574'B>31 BA ʻ & 943@'56 8'56>'ʻ'3456 3?'?>25>)ʻ 3456 3?'54'A 8 5'4>ʻ> 5>2 3'56 8 K ; 5';9'56 8'8 5' : >9'56 3?ʻ A ʻ;'A 8 5 @'23@'> 5>2 3 @ʻ 3 %(*.8



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A 16)/*0"+K*(&4+)#'2+)-*K4-('+/*6)/* *(*<)
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; %)) AA 8 4) B/*1)/* +/%((*%6-*$ %16
6*('5*2 "4 4K!)%.*1"")/"40/)-*#"2*/%16
B/%) *+/%((+K*%.! 1*')/*2 6" *K2*&*Y
6')%)*- 4) BP/%)+"*5*2 +/%((-*0'5*1 "4
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A9 "B)/*-2")/*2+/%((-*)2%)/*-2"Y
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8 %)) AC P 8 4) B/*1 *+/%((+**)/*%-"&'Y
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1")0"6"B1'1)"!)/* /"4+*!1*')/*2 *1)*2
-/ #)")%.*%1)/'10"4)"#/'+/"4+*
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AI 4) B"*)")/*&)/%)%2*B')/ </'(6!
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<2*%)'"1B/'</ "6<2*%)*6 41)")/'+)'&*!
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9 16 *R<*K)/%)/* "26/%6+/"2)"
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9?* 4))%.* */**6 -*/"(6! /%5*
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9C P P 4) '1/"+* 6% +! %#)*2/)%))2'
-4(%)'"1!)/* +41 +/%((-*P 6%2.*1*6! %16
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&%1<"&'10'1)/*<("46+B')/02*%)K"B*2
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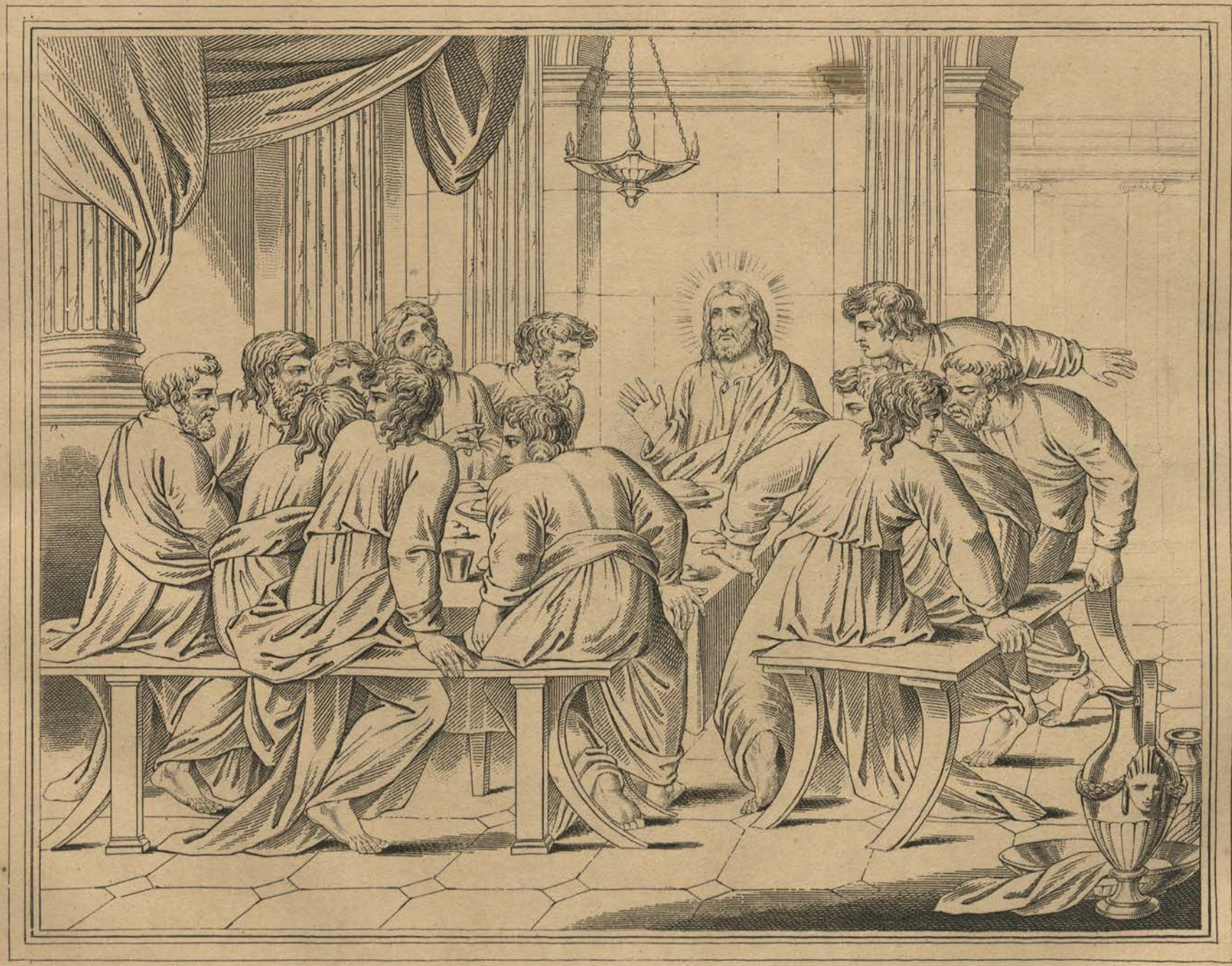
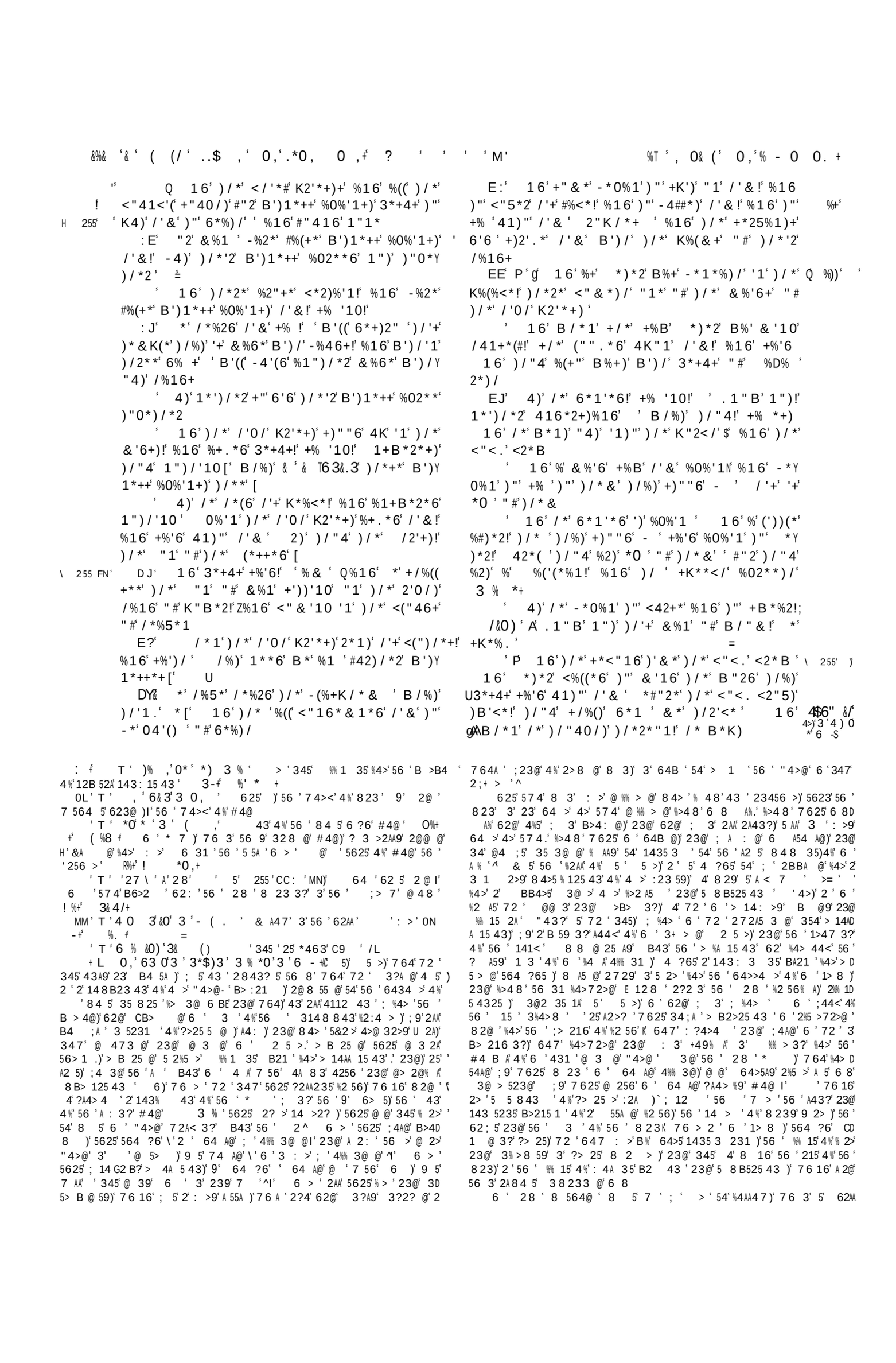


Painted by Raphael D'Urbino. *Engraved by H.Moses.*

THE LAST SUPPER.

Mark 6h.14ver.18.

Published by the Society for promoting Christian Knowledge May 1818.



Painted by Raphael Mengs. *Engraved by H.Moses.*

CHRIST APPEARING TO MARY MAGDALENE.

Mark ch.16. ve.9.

Published by the Society for promoting Christian Knowledge. Sept.r 1.1815.

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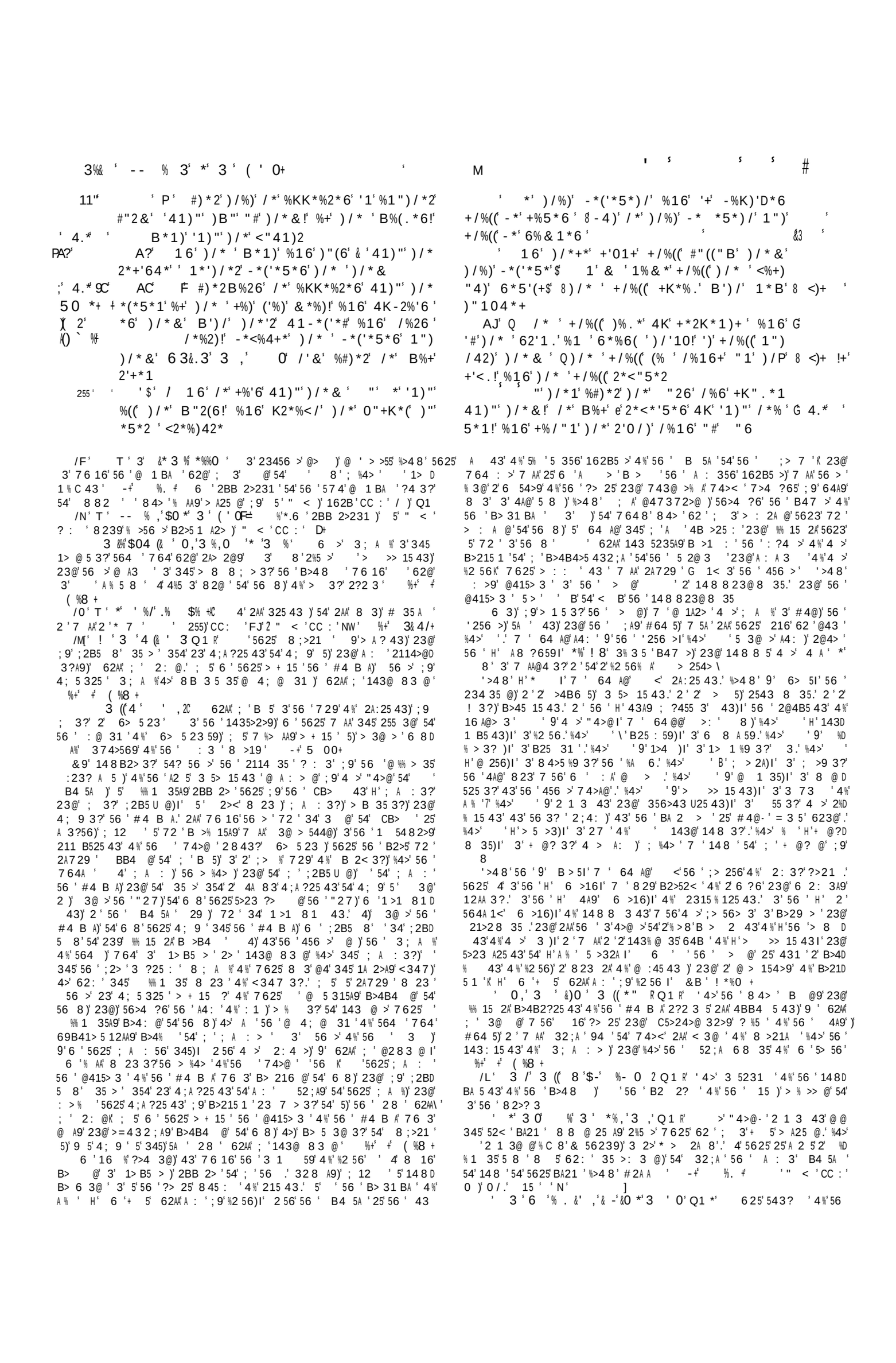

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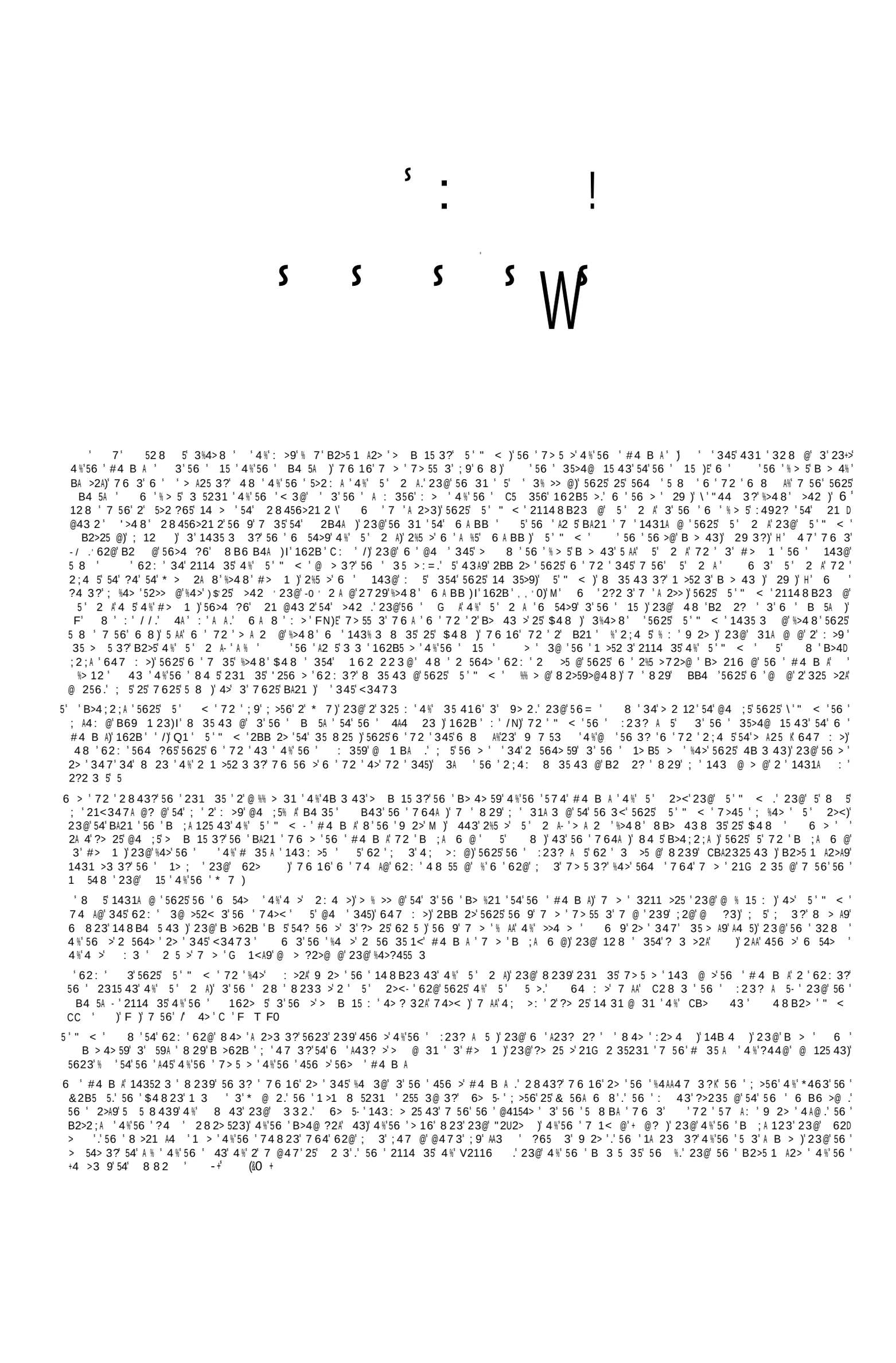

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& %4>'56' +K'2')'%16'K"B '7"#' ('%+!')"')421')/*'/*%2)+'
84"#')/*'#%)/*2+')"')/*'</'(62*1!'%16')/*'6'+'
&48 356'"-*6'*1)')"')/*'B'+6"&'"#')/*'$4+)'')"'
"2' 2*%6 '%'K*"K(*'K2*K%2*6'#"2')/*' "26
AJ' 16' @%</%2'%+' +%'6' 41)"')/*'%10*(!'
/*2*-' +/%((' .1"B')/'+'[#"2' '%&'%1'
"(6' &%1!'%16' &' B'#*' B*' +)2'<.*1' '1
;' *%2+
AL' 16')/*'%10*('%1+B*2'10' +%'6' 41)"'
/'&!'A'%&' %-2'*(!')/%)' +)%16''1')/*'K2*Y
+*1<*"#" "6' '%16'%&'+*1)"'+K*%.'41)"'
)/**!'%16')"'+/*B')/**')/*+*'0(%6')'6'10+
9' 16!'-*/"(6!')/"4'+/%()'-*'64&-!'
%16'1")'%-(*')"'+K*%.!'41)'(')/*'6%')/%)'
)/*+*')/'10+'+/%((-*'K*2#"2&*6!'-*<%4+*'
)/"4'-*('*5*+)'1")'&'B"26+!'B/'</'+/%((
-*'#4(#'((*6'1')/*'2'+*%+"1
9A' 16')/*'K*"K(*'B%')*6'#"2'@%</%2'%+!'
%16'&%25*((*6')/%)'/*')%22'*6'+"'("10''1')/*'
)*&K(*
99;' 16'B/*1'/*'<%&*"4)!'/*'<"4(6'1")'
+K*%.'41)"')/*&' %16')/*'K*2<*'5*6')/%)'
/*'/%6'+**1'%'5'+'"1''1')/*')*&K(*'#"2'/*'
-*<."1*6'41)"')/*&!'%16'2*&%'1*6'+K**</Y
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9J' 16')'<%&*)"'K%++!')/%)!%+'+"'"1'%+'
)/*'6%+'"#'/'+'&'1'+)2%)'"1'B*2*'%<<"&Y
K('+/*6!'/*'6*K%2)*6')"'/'+'"B1'/"4+*
9C' 16'%#)*2')/"+*'6%+'/'+'B'#*'('+%Y
-*)/'<"1<*'5*6!'%16'/'6'/*2+*(#'5*'&"1)/+!'
+% '10!' ! P
;' 9:' /4+'/%)/')/*' "26'6*%()'B')/'&*'1
)/*'6%+'B/*2*'1'/*'(""."6'"1'B*!')"')%."*' '!'
%B%'&'2*K2"%</'%&"10'&*1 '
9E' 16'1')/*'+'R)/'&"1)/')/*'%10*(' "'"!'
%-2'*(' B%+'+*1)'#2"&' "6'41)"'%'<') '"#' "#!'$
%('(**!'1%&*6' %D%2*)/!
' "'%'5'20'1'*+K"4+*6)"'%'&%1'B/"+*'
1%&*'B%+'3"+*K/!"#')/*'/"4+*'"#' %5'6'
%16')/*'5'20'1+1%&*'6' %2
9J' 16')/*'%10*('<%&*'1'41)"'/*2!'%16'
+%'6' %'(!'CW' M 3' %'((/'0/('#%5"42*6!'
)/*' "26'&'B')/')/**'-(*++*6' %')/"4')%.&&
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-(*6'%)'/'+'+% '10!'%16'<%+)'1'/*2'&'16'
B/%)'&%11*2'"#'+%(4)%)'"'1')/'+'+/"4(6'-*
?' 16')/*'%10*('+%'6'41)"'/*2' *%2'
1")!' %2 '#"2')/"4'/%+)'#"416' #%5"42'
B')/' "6
?A' 16!'-*/"(6!')/"4'+/%()'<"1<*'5*'1' 2'W/N'
)/'B"&-!'%16'-2'10'#"2)/'%'+"1!'%16'+/%()' 255'/F/
<%((' /'+'1%&*'3
?9' *'+/%((-*'02*%)!'%16'+/%((-*'<%((*6'
)/*' "1"#")/*' '0/*+)'%16')/*' "26' "6'
+/%((' 0'5*'41)"'/'&')/*')/2"1*"#'/'+'#%Y
)/*2' %5'6
??' P' 16'/*'+/%(2*'01' "5*2')/*'/"4+*'H 23'W/N'
"#'3%<"-'#"2' *5*2'%16'"#'/'+' .'106"&' 1'N'W
)/*2*'+/%((-*'1"'*16
?C' /*1'+%'6' %2 '41)"')/*'%10*(!' "B'
+/%(()/'+'-*!'+**'10' .1"B'1")'%'&%1'[
J:' 16')/*'%10*('%1+B*2*6'%16'+%'6'41Y
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H'54'5 >3'56' 6 2>5'4%'56'%256 > i-'Q1';9'B>4 8 45 3?'B 21'23@'
62>8439' 28 43?'6' 14 35>98 3)'23@'H'82<' > 2@9'2'B 4BA I'
B> B2> @'%4>'56'> 1 B5 43'4%'56'#4 B A' %+' ! (+
*' $%0' 3'3 % 'Q1 R' '345'25' 2A2 6':'M' 6
8 23 3?' 8'54';)' 56 >)'5625' 8 3'4%' :>9'2?'23@' :>9'
@ B4 5 43 64 A@';' 3 5 @' 3'5> 56'23@'162>59.'7)'2' 48'
A 2>3 @' CB4 54>' 3@ > 523@)'56'B2 2?)'5625' 5'*4A 8' 64 A@'
;>3?'8239'4%'56'*7'54'62:'56' 28'6 2>5'23@'8 3@'76 16'
56 >'%256 >'23@B>4?3 54>'62@)'764'% 2>@'#4@)'23@';A:'@'
'B>48 .'5625' 4'56 >'%256 >'8 ?65)'2'5'7 >)'>+4 1'3'
56 8)'23@'473'56 8'2?2 3'%4>'56 >'16 A@>3.'3'456 >'74>@)'
5625'6' 64 A@'143:>5'56 8'54'56'%2 56'4%'5625' 6>5'3'7648'
56 >'%256 >'64B @)'23@'%4>'7648'56 9'A44<@.'A 5)'2A'1435 3 D
3?'4;5 325'3'56 >'3;A %)'5 AA'56'@29'76 3'2'>+15 @' 2:4 >'
64 A@':5'23'2B4 525'B 4BA)'56'1>' 64 A@';' 3:>2A'
-+' ! +
F' T'3*$'3 ((4',$ 4%N 6'5 8B4>2>9'@ 8;3' '23'
2@8 43 54>9'B 3 68 35'54'6 8'%4>'6' 3;A %.';5'5' 8'54'
62:';' 3'35 3@ @'2A 4'2'2' ?3)'23@'3@ @'72'2@8>2;A9'12AD
1 A25 @)';9'5'1435 3 231'23@B ;A1<'>8 43)'54'%C'56'255 3D
5 43'4%'56'* 7'43'56' :3'162>215 >'4%'56'B>48 @'16 A@'
&%* &$ +
FF'T'3/'-%.&',N &9'6'345';3?'2;A'54' B 2<)'23@'
B>4;2;A9';9'56'% 15'76 16'56':43'62@'43'6'2BB 2>231'
-+ %. +
JH# T'3',/'*'3&' &]&& % (&*ON 6' :3'@29)'@ >3?'
76 16'56'8 3 5>25 43'4%' 216'14 >'1435 3 @'
FN'T'3&,'3 % '&' * 0 3 " :@'>5>@)'%>48'@ :45 43'
54'#4@'%4>'4' 3? A2>'23@' 3 CB 15 @'2'8 >19' %+' 3&4/+
J>+' L'*' 8' 6/' /'% -%* .3N &2>> 33 '72' 5 8 @'2'
> B>4216'28 43?'56'* 7 ' '# 3'CCC'JH+' -+ %. + 6'
64B' ? : 3?';>56'54'56' 26'>3@ > @'56'* 7 6'748 3

C5> 8 A9'23C4 '%4>'16 A@> 3)'23@'82@'56 8)'%>48'56' 2>A 5'
5 8)'143 @ >';2>> 33 '2'2' ?3'4%'#42A-'+ @?8 35'4>'@ BA 2D
> ' %+' &)3 ** +
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1431 B5 43' %+' *0,+
T T'3'0)(' 4%& N 5' '> 82><2;A'5A 25'56'233 31 2D
5 43' '82@';9'56' 28'2>1623?A'#2;>A)'764'62@'%4>8 >A9'
2BB 2>@'54'56'>4B6 5' 23 A)'162B':'(D 2' C'F/.'23@)B>4D
;2;A9'54'56'>4B6 5'V 162>2A)'162B' /T N)'23@'@ 1>;@'54'
;456' 4'1>1 8 5235 2AA9'56'148 3?'4%' 6>5)' >+15 43';9'
56'*7)'23@'56'%3@' 52;A 68 35'4%' <3?@48' %'
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J\+' T'!&('3*$'3 '%'3&)3(/' '*$% , ' 625')'764'62 5
%4 3@'%2:4 >'%>48'#4@)':>' %+' 3&4/+
4(,'%'3*$' *0)'6* 0+N 6'764A' CB> 43'
2'%4>8'4%' 2A 525 43=@ 345 3?'<3@3)'23@'345'>:>31.'23'
34'2>? 8 35'123';'@>27 3'%>48'56' B2 2?'%4>'239'>A?4'
74> 6 B'B2@'54'56', >? 3' 2>9' -+ 5 00+
HJ+' ! '+3((4')% 'Q1 R' 62AA';'2'?> 25'23@'?A4>4'
>43)' :3'56' CB 15 @' 2A)'56' 43'4%'56' 4 5' ?6'
#4@.'23@'#4@' 62AA?:' 8'23' 5 >32A'23@' B>5 2A'<32@48)'
4%'76 16'5625' 64>5'23@'5 8B4>2A'43'4%' 2:@'72';5' 0% 59B'
23@>B> 3525 43' %+' +' (%8 +
N' T'!*6' 3((3&'M)' 'G 543'345'2> 3?'%>48'@ ;D
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2>9'54'56' 16 8'4%'>@ 8B5 58)';9'56'$ @ 8 >-'4%%>&?'
8 A%' B' 2'23' CB 254>9' 21>%1)'5625'56' 8233 >'4%'4 >'
"4>@-'1431 B5 43' 648@';' 16'5625' 64 A@' 3'34'@ ?>'
B2>52<'4%'56'325 >2A'B4AA 543'4%'56'%2AA 3'>21)'%4>'764 '? A5'
'128'54'2543)'34>';' 31A @ @'3'56'?3>'143@ 8325 43

Painted by Peter Mignard.

Engraved by Geo.e Cooke.

THE SALUTATION OF MARY AND ELIZABETH.

Luke C.1. v.41.

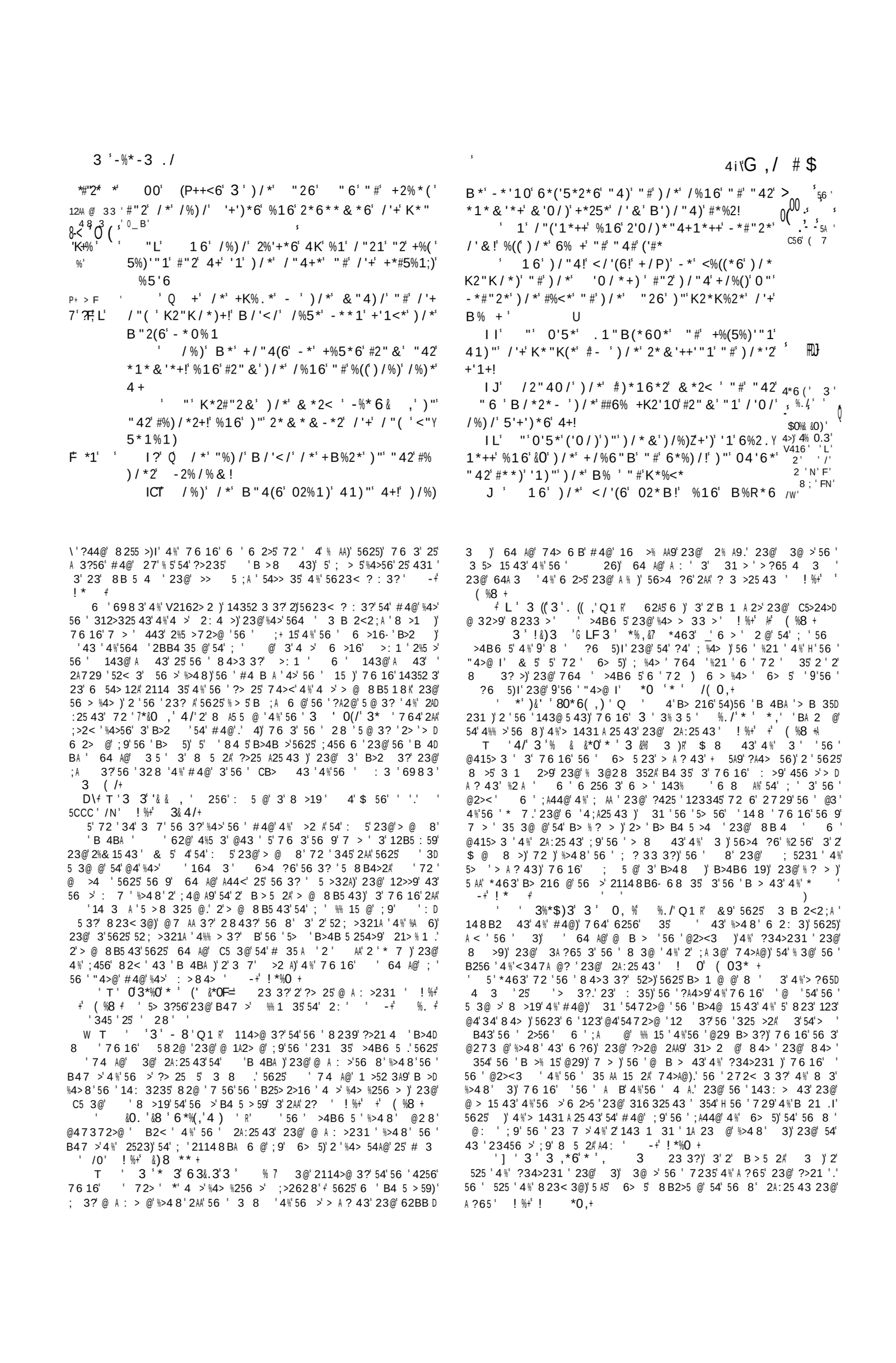
London Published by the Society for promoting Christian knowledge. July 1.st 1815.

& %4> '%6 ' /*1<*#"2)/' %((' 0*1*2%)'"1+' +/%((' <%((' & *' 114 35' -(*++*6
12AA @' 334' CL' "2' /*')/%)' '+' &'0/) ' /%)/' 6"1*')"' 48 3'5; ' & *' 02*%)')/'10+' 7! %16' /"('& ' /'+' 1%&*
C56' (2> : ' 16' -'+' &*2< '& ' "1')/%1')/%)' #*%2' /'&' #2" &' 0*1*2%)'"1')"' 0*1*2%)'"1

7 8(': AL' :A' F *' /%)/' +/*B*6' +)2*10)/' B')/' /'+ %' 2A' ' %2& ' ' /*' /%)/' +<%))*2*6')/*' K2"46' '1')/*' / '&%0'1%)'"1' "#)/*'2' /*%2)+ ;
'/ 28'F' M :9' F *' /%)/'K4)' 6"B1')/*' &'0/) ' #2"1*' 3 &%% +*%)+!' %16' *R%()*6')/*&' "#'("B' 6*02**
' 2A' N' / :?' Q *' /%)/ #'((*6')/*' /4102 ' B')/' 0""6')/'10+' %16')/*' 2'</' /*' /%)/' +*1)' *&K) ' %B%
'* >' ') 9 ' 2A' / F' # 3' /W J :C' *' /%)/' /"(K*1' /'+' +*25%1)' +2%*(! 8'1' 2*&*&-2%1<*' "#' & *2< : :' Q +' /*' +K%.*')"' "42' #%)/*2+!')"' -2%Y /%&!' %16')"' /'+' +**6' #"2' *5*2 : E' 16' %2 ' %-"6*' B')/' /*2' %-"4)')/2**' &"1)/+!' %16' 2*)421*6' ' /*2' "B1' /"4+* : I' "B' ('+%-*)/ +' #4((')'&*' <%&*')/%)' +/*' +/"4(6' -*' 6*('5*2*6' %16' +/*' -2"40/)' #"2)/' %'+"1 : J' 16' /*2' 1*'0/-"42+' %16' /*2' <"4+'1+' /*%26' /"B')/*' "26' /%6' +/*B*6' 02*%)' &*2< ' 4K"1' /*2' %16')/*' 2*$"'<*6' B')/' /*2

' 2'6' ')' <%&*')"' K%++!')/%)' "1')/*' *'0/)/' 6% ')/*' <%&*')"' <'2<4&<'+*')/*' P* 11' </'(6' %16')/*' <%((*6' /'&' @%</%2'%+!' %#)*2' K"&&)/*')/*' 1%&*' "#' /'+' #%)/*2
' 16' /'+' &")/*2' %1+B*2*6' %16' +%'6 ")' *2' -4) /*'+/%((' -*' <%((*6' 3"/1
' 16')/*' +%'6' 41)"' /*2!' /*2*' '+' 1"1*' "#')/' . '162*6')/%)' '+' <%((*6' - ')/'+' 1%&*
' 16')/*' &%6*' +'01+')"' /'+' #%)/*2!' /"B' /*' 52"4(6' 1%5*' /'&' <%((*6 E?' 16' /*' %+.*6' #"2' %' B2')'10')%-(*!' %16' B2")*!' +% '10' '+' 1%&*' '+' 3"/1' 16')/*' &%25*((*6' %((EC' 16' /'+' &"4)/' B%+' "K*1*6' '&&*Y 6'%)*(! %16' /'+')"104*' (** , ' %16' /*' +K%.*!' %16' K2%'+*6' "6 E:' 16' #*%2' <%&*' "1' %((')/%)' 6B*()' 2"416' %-"4)/*&' %16' %((')/*+*' A+% '10+' 1"2! B*2*' 1"'+*6' %-2"%6')/2"40/"4)' %((')/*' /'6' 877G+g <"41)2 '"#' 346*% EE' 16' %((')/*')/%)' /*%26' 3 ' (%'6' 3 '4K' 1')/*'2' /*%2)+!' +% '10!' /%)' &%1Y 1*2' "#' </'(6'+/%((')/'+' -*X 16')/*' /%16' "#')/*' "26' B%+' B')/' /'&
' 16' /'+' #%)/*2' @%</%2'%+' B%+' #'((*6' B')/')/*' "(' /"+)!' %16' K2"K/*+'*6!' +% Y '107

NL' T' (() 0 % & ' 3 ((. ((' '4(, ' & 12 ' 3'6 >' 72 ' 56' 6> 523' 6 >16' 62 '564 ?65' B>4B >' 54' 1 A ;>25 ' 6 '@29 ' 54' ; '2114 8 BA 6 @' 56 ' 231 35' B>4B6 19)' 8 25' H' 2' : >? 3' 64 A@' 2BB4 35 @' %4>' 56 ' 148 8 84>25 43' 4%' 456 >' 2 35 ' 2> ' ? 3 >2AA9' 1431 : '23@' ; 2>' 2' 43)I' ' : ' /N.' 4%' 6 >' 72 ' 54' ; ' ;4>3' 56 ' 564 ' 43' 76 16' 56 9' > B 15 : A9' 1 2 @' %>4 8 ' 56 >' A2;4 >)' 23@' $ @ 8 >' 4%' >2 A)' 56 ' 2: 4 >' 4%' 56 ' 74>A@)' 56 ' 4A9' 3)' 56 ' 35 > @' 354' 56 >' : >A2 5 3?' > 5.' 56 ' @29' 4%' ' ?44@' 823- ' @ 256' 8 ?659' #4@)' 56 ' > 31 '4%' 21 ' AA' 56 > %4> ' 8 ?65' 2AA' 2%5 %' ; 3?' 3@ @' 56 ' @29' 4%' 6 ' ; >56)' 23@' 56 ' 74>A@' 34' 84> ' 5623' 2? ' 9' 12AA' 6 >' ; A @ 7 AA' 8 ?65' 56 9' 1 A ;>25 ' 6 >' 8 84>9)' 56 ' 74 8 ;' 3' 76 16' 6 ' %4>8 @' 23@' 825 > @' %4>' 6 ' 2@8 43' 76 > ' 56 >' ' 3 56 >' 4>>47' 4>' B2 3' & 5' 56 ' 325 : 59' 4%' 5' %> 5' 4%' 764 ' 748 ;' 72 ' 56 ' 564>' 4%' 5 >32A' 2A:25 43.' *463' ; 3?' @ ?3 @)' ; 9' 56 ' > 82><2;A ' 31 @ 35 ' 5625' 21148 D 7 AA' 8 ?65' 56 9' 2@8 > ' 6 >' 2 ' 2' B255 >3' 4%' 5> ' 8 <3)' 23@' B23 @' 5)' 54' 5 >3' 56 ' 9 ' 4%)' 8 3' 5472>@ ' 3 ' 5625' 72 ' %2>' B 59)' 23@' B > 59' 4%' 8233 > K ; 5'%2>56 >' 5623' 56 ' 7 '@2> ' 345' ?> 25 >.' 3)' 56 'A2516 5' 4%' 764 ' 64 '3 ' 143% @' 6 8 A%' 345' ?4 ' 4' 3:4< ' 6 >' 2 ' 56 ' G 3' 4%' 6 2: 3)' 54' B>29' 54' 6 >' 23@' 74> 6 B' 6 >)' 2 ' 43 ' 62: 3?' : 3 ' B47 >)' ' 56 ' 6 ?65' 4%' B>4D %23 3 '23@' 8 B 59' .' 23@' 2' @ > 15' ;> 216' 4%' 56 ' % > 5' 23@' ?> 25' 74 >' 54' ; ? 3' 4 >' 8 @ 525 43 ' ; 9' 143 @ > 3?)' 2 ' 2AA' * @ 2' @ @' 148 823@8 35' 47' 8 5' 6 >' 8 <' 23@' 6 8 ;A ' B > 5' 62: ' 76 3' 5' 62BB 3 @)' H' 7625' 8233 >' 4%' 16 A@I' 5625' 64 A@' ;)' 76 16' ; 3' 4%% 3@ @' 23@' 641< @)' 14 A@' 6 ' 62: ' %4> 3' 56] @4 25>4 ' 72 ' 4' 743@ >% AA9' ;48 ' + B' ! * + 2@4>25 43' 4%' 56 ' 6 >16' 4%' $48)' 76 16' 345' 43A9' H' 12AA ' 6 >' ' T' *0' 3' &)33', /7 '" :' C)' /T + 6 9' ?2: ' 56 ' ;A @)I' ; 5' BA21 ' 6 >' B43' 23' G 2A 59' 7 56' 56 ' ;A @' "4>@' ' 328 ' *' 56 ' 16 A@' 25' 56 ' 5 8 ' 4%' 56 ' 1 >1 81 43)' 56 ' 328 ' 4%' 4%' 6 2: 3' 23@' 2>562' 329)' 3' 48 ' 3 ' 82< ' 6 >' B > 4 >' 54' ;>28 ' 62: 3?' ; 3' 1623? @' 25' 56 ' % > 5' 3 55 5 43' 4%' 56 ' >5)' 4 >' 2: 4 >)' ; 9' ; 16 3?' 6 >' 54' ['148 823@' 6 >' 43-' 54' ?>235' # 3' C: ' 0)' / ' > ' &)3 ** + 56 >' > G 5 ' (,*+ ' T' 3 /' , ' &)0 ' *' 3& ' 3 % 6 ' 8 ' 54' 6 7' 5625' 0/' ! ' 3 3' 3 6 ,' % 0) 3' Q1 R' 6)' 6 ' B>41 @)' 3' 4A@' V2162> 2 ' 72 ' @ 2%)' 2 ' 7 AA' 2 ' @ 8 ;' - ' %. + 5 8 ' #4@' 62 '%> G 35A9' ? : 3' > 82><2;A ' 3 5231 '4%' 'B47 >' D>+ O' 3 /' %' ((,'2 R' '4>'56 '> 2 43)' 25' : > ' M)' MA 23@' 7 @48)' 3' 143%4 3@ 3?' 23@' ;> 3? 3?' 54' 34 ?65' 56 '@ : 1 ' MM' T' ' 3' 0,'* '3' " ,'6 '6& 3' 3& +J' 6 '16 A@') ' ' 4%' B>4 @' 23@' @ ?3 3?' 8 3)' 23@' 5 >3 3?' 56 3?)' ; 943@' 2AA' CD 23@' 2BB 2> @' 54' ; ' ;A @' 3' 2' B 1 A 2>' 8 233 >' ; 9' 56 ' 1435 3 2A' B 1525 43)' 54' 5A ' 2@:2352? ' 4%' 56 ' 84@ 5' 23@' 6 8 ;A ' ! %' + 12> ' 4%' : 3' >4: @ 31 ' %' + (%8 + (%8 + ' T' 0,'-`%*-8 & , F= 23 3?)' 5625)' ; 9' : 3 ' 3 B >25 43)' ON)' 00' ! ' 3 3' 3*(- 0' 3& ' %' 0' Q1 R' 3' B2>5 1 A2>' ' 6256' 6 ' 48B4 @' 56 ' %4AA4 7 3?' 6983)' c ! %+' + (%8 R' 3' 76 16' 6' 2AA' 2A43?' B> >: @' 23@' ;A @' ' B 1 A 2>' B 4BA)' 56 ' * 7)' 3' B>4B6 5 12AA9' @ 1> ; ' 7625 7 AA' ; ' @43 ' ; 9' 6 ' 43)' 23@' 56 ' 23' B 1 2A' 8233 >.' 3' = @' 5 8)' ; 9' A 2@ 3?' 56 8' 56>4 ?6' 56 ' 26' 6 > 2%5 >' %+' 3& 4/+ ?> 25 5' @23? >)' 23@' @ 6: > 3?' 56 8' %>48' 56 >' 84 5' B47 >% A' 6 ' 4 12 43' 43' 76 16' 56 ' %4AA4 7 3?' 6983' 72 ' 148 B4 @' 72 ' 3 8 '2' 23@' 347)' ; 9' 3@ 3?' 54' 56 8' 56 ' 26)' 56 >' 2D 56 ' ; >56' 4%' 5' *463' .' 56 ' ;+ 15' 4%' 5' ' 56 '14: 3235' 4%' ?>21 ' 3' : 4 >.' 2114>@ 3?' 54' 56 ' ?>21 4 ' B>48 ' 76 16' ' 82@ ' 54' 4 >' * ' 6> 5.' 56 ' B 2< >' ' 2' B> 5' 23@' 2' >4B6 5)' 9' %4> %256 >)' 23@' 56 ' > 5' 4%' 56 ' 25> 2>16)' 5625' ' 74 A@' 6 7' 56' 4A9' #64 5)I' > 3?' 2' 5 @ 4 ' 35 >:2A' 4%' A 31)' V2162> 2 ' C5>24>@ 32>9' 8 >19' 54' 56 8' 23@' 56 >' B4 5 > 59' 56>4 ?6' 2AA' ? D 62@' ; 6 A@' 56 ' 21148 BA 68 35' 4%' 56 ' : 3 ' B>48 ' 54' 6 8 A%.' 3 >25 43 ' %+' + (%8 + 23@' 6 ' A < 7 ' <3 7' 5625' 56 ' 2: 4 >' 4%' 5323< 3@' 74 A@' 443' ; ' O' 0,'+ 3 '4%*$)3 ' *% 3' ' 5' '4; >:2;A)' 5625' 56 ;48' 4%' 6 ' > A25 43)' 56 ' : >? 3' 2>9' ' 829'+ @?)' 56 >@;>)' &2B5 5-' 325 : 59' ' 5 '4>%9' 43 ' 5A 25' 4%' 6> 5' C1 B5 @E' 7 316 7625' B2 3' 23@' ?> %' 6 ' % A5)' 76 A ' > 5>2 3 @' %>48' 55 > 3?' 5625



Painted by Sir Joshua Reynolds *Engraved by George Cooke.*

THE ADORATION OF THE SHEPHERDS.

Luke C. 2. v. 16.

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9? ^ +) ') +) B2'))*1) '1))/*) (%B) "#))/*) "26!) Q 5*2 &%(*))/%)) "K*1*)/))/*) B"& -) +/%((-*) <%((*6) /"( ) ")) /*) "26) N 9C 16))"" "##*2 %) +%<2'#'<*) %<<"26'10))") 7)/%)) B/'</) '+) +%'6) '1))/*) (%B) "#))/*) "26!) K%'2 "#))42)(*6"5*+!) "2)B") "410 K'Y 0*"1+ 9:) 16!) -*/"(6!))/*2*) B%+) %) &%1) '1) 3*Y 24+%(*&! B/"+*) 1%&*) 6) '&*"1) %16))/*) +%&*) &%1) B%'$4+) %16) 6*5"4)! B%'#'10) #"2))/*) <"1+"(%)'"1) "#) +2%*() %16))/*) "( ) /"+) B%+) 4K"1) /'& 9E 16) ') B%+) 2*5*%(*6) 41)") /'&) -))/*) "( ) /"+)!)/%) /*) +/"4(6) 1")+**) 6*%)/! -*#"2*) /*) /%6) +**1))/*) "26 +) /2'+) 9! 16) /*) <%&*) -))/*) K'2') '1) "))/*))*&K(*) %16) B/*1))/*) K%2*1)+) -2"40/) '1))/*) </'(6 3*+4+!) ")" 6"#"2) /'&%#)*2))/*) <4+Y)"&) "#))/*) (%B!

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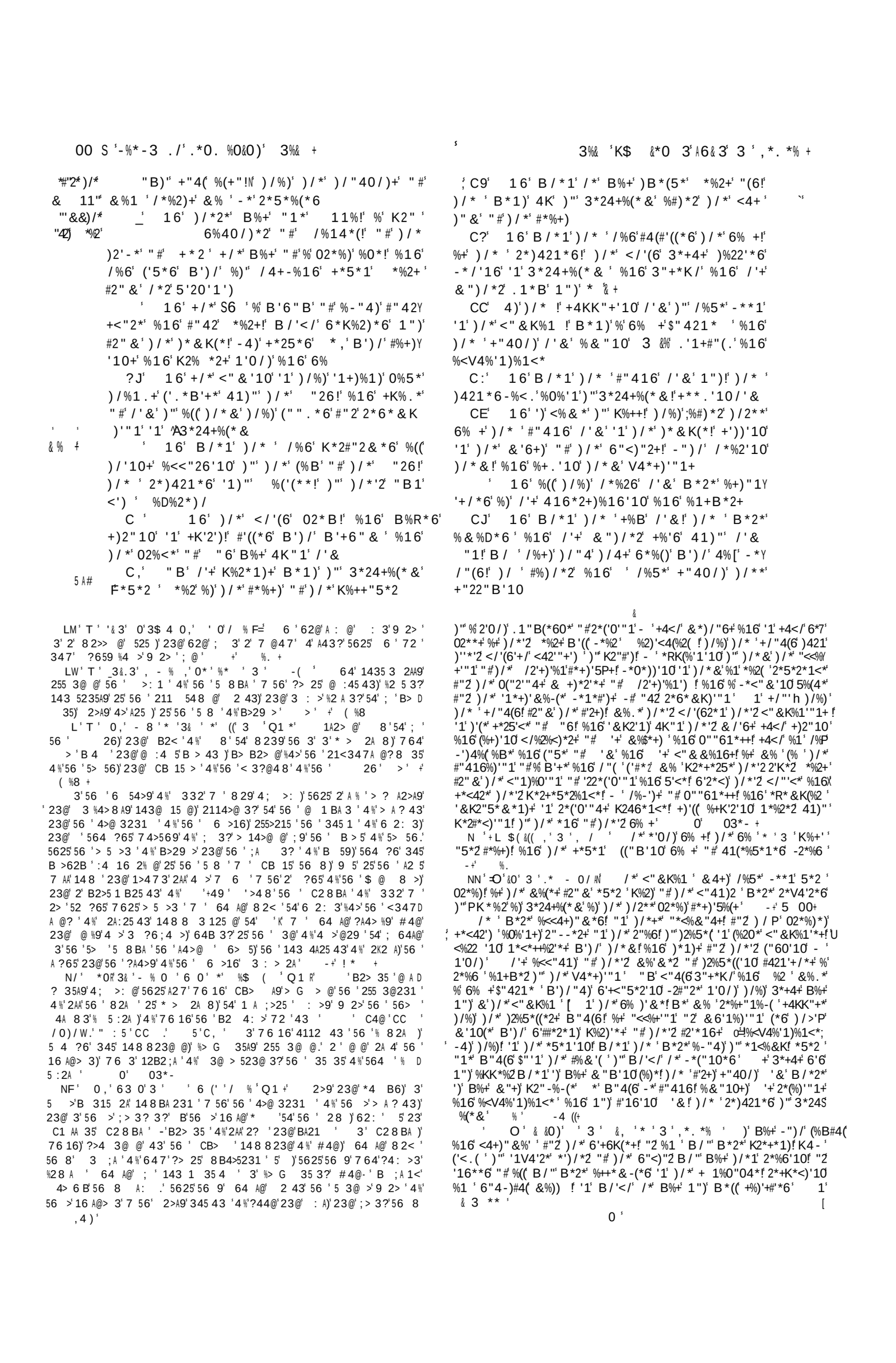

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5"'<*' <%&*' #2"&' /*%5*1!' B/'</'+%'6' /"4!'
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62> '23@' 2@@ 1 ' 5'72' B4< 3' B>4;2;A9'54)56 8'8 C @'
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;A 3?'56 9'2BBA @'54'6 8'7 56'56 'G 543' 6'@ 14 > '56 9'
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%4 3@'2AA' 56' :2 3'4B 3 43 '23@' B> 8B5 43)'43'76 16'56 9'62@'
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62@'A4: @'23@'> A : @'5A 8' -+' !*%0 +
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64 A@';' 4'%2>'%>48'@ 5 >; 3?' 56 >'56 'B 21' 4%'B> :25' 143D
1 31)'4>'56 'B ;A 1<'> B4)';9'143@ 8 3 3?'3 1 2>9' 8 BA49D
8 35)'5625' 6' 4 ?65' 12> % AA9'54' B>4 8 45 ';456)';9' 1435 35 3?'
6 8 A%'7 56'43A9'> 5> 316 3?'56 '@ 4>@ >'23@' 3+ 5 1'4%'564 '
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8 BA498 35'4%'56 '325 >)' '54' >:'56 ' 525 .'23@'564 'A44 '
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31' 56 >' 62:' ; 3' 4A@ >)'764' 62:' 345' 43A9' ; 3' ?44@'
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72>'62@'; 3' 1435>2>9'54' 56 ' #4 B A)' 5'*463' 74 A@' 345' 62:'
2AA47 @'5A 4 ' 764'B> 35 @'56 8 A: ' ; %4>' 6 8'54' 1435 3 '
3'5625' 525' 47 : >)' 5' '2' 525' 1 >52 3A9'% AA' 4%' @ %% 1 A5 '
23@'5 8B525 43 ' -+' !*%0 +' ' ') ']
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: 4A 31 '23@' C54>5 43'7 >' 2AA9'143A8 55 @' ;9'56 8K 23@' 5'
829' ;'7 AA'%4>'564 '764'A : 3' 45A >'5 8 '23@' 14 35>)'54'
183B2>'5 >'473' 143@5 43'7 56'5625' 4%'56 ' * 7)'764'7 > '
CB4 @'54'2AA' 56 ' 3+ 51' 23@'7 1< @3)' 3'4>@ >'5625' 56 9'
829'% AA9'<347'56 ':2A '4%'23 G 2A'23@'+ 5'?4: >38 35)'76 >'
56 '8 A 52>9'B47 >' ' ;+ 15'54'56 '< 7'4%'56 'A23@)'23@' ' 8 BA49 -'
@'345'%4>'4BB> 43)'; 5'%4>'B>45 15 43'23@' 1 >59' -+' 5 00+
/J)'F ' $' ! %*,' 3' % %.3 ' 6 ' 8B> 438 35'4%' 5)'
*463'62BB 3 @' 48'5 8 '2%5 >'6 ' ; ? 33 3?'54'B> 216' > B 35 '
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; 12 '6'72' B 2< 3?'2;4 5' 5'*463' 6 '56 '574': > '
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72'54'52<'2729'56 ' 3'4%'2AA' 56 >'8 3)'B> 35 @' 8 A%' 3'
56 '1>47@'4%' 33 >)'2)'43'4%'56 8)'23@' 4A 1 5 @'56 'H' ;2B5 8'
M%'> B 35231 345'5625'725 >'8 ?65' 2315%9' 8)' ; 5'5625' 4'
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8 235'5625'56 ' 62B' 72' A <'5625'4%'2' @4:)' ; 5'5625'56 ' A ?65'
B>' i+A4>9)' ; 9' 76 16'56 ' 4A9' B>5' 823 % 5 @' 8 A%)'62@'2'
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9C' /'</' B%+' 3 ' *0' "#' %))/%)!' B/'</' B%+' 3 ' *0' "#' *5'!' B/'</' B%+' 3 ' *0' "#' *(</'!' B/'</' B%+' 3 ' *0' "#' 3%11%!' B/'</' B%+' 3 ' *0' "#' 3"+*K/!

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9J' /'</' B%+' 3 ' *0' "#' *(</'!' B/'</' B%+' 3 ' *0' "#' 66'!' B/'</' B%+' 3 ' *0' "#' "+%&!' B/'</' B%+' 3 ' *0' "#' (&"6%&!' B/'</' B%+' 3 ' *0' "#' 2!

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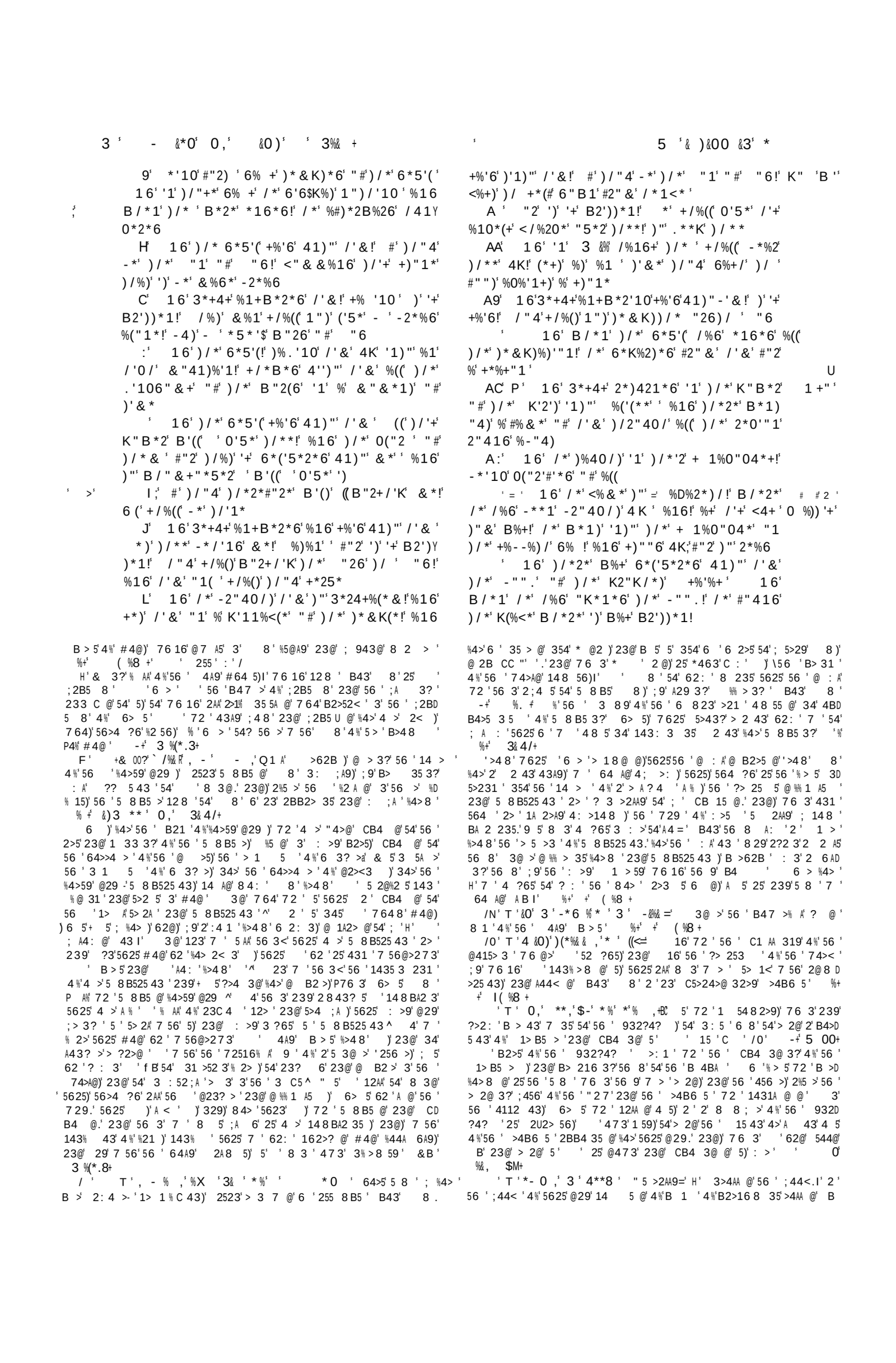
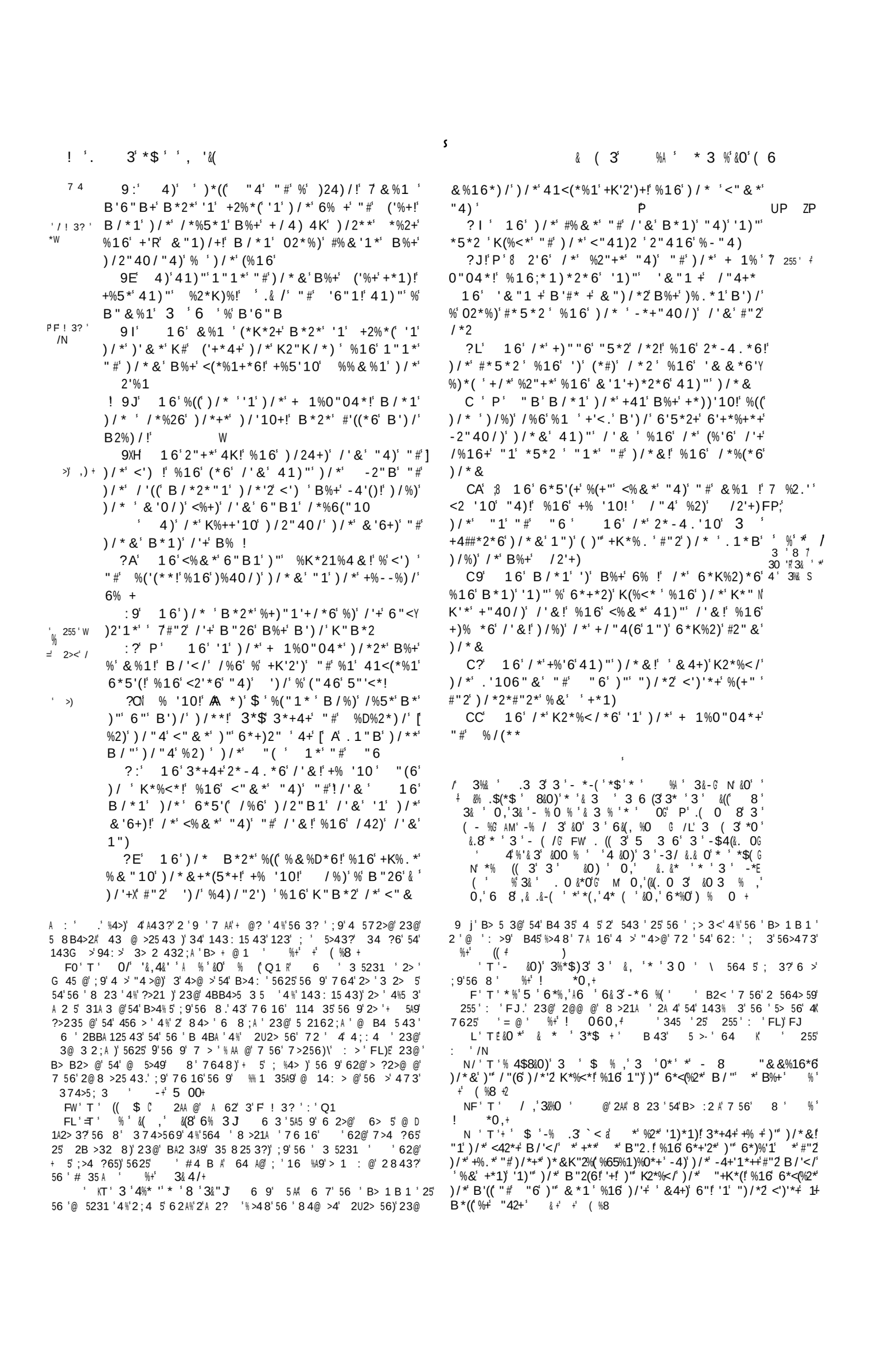
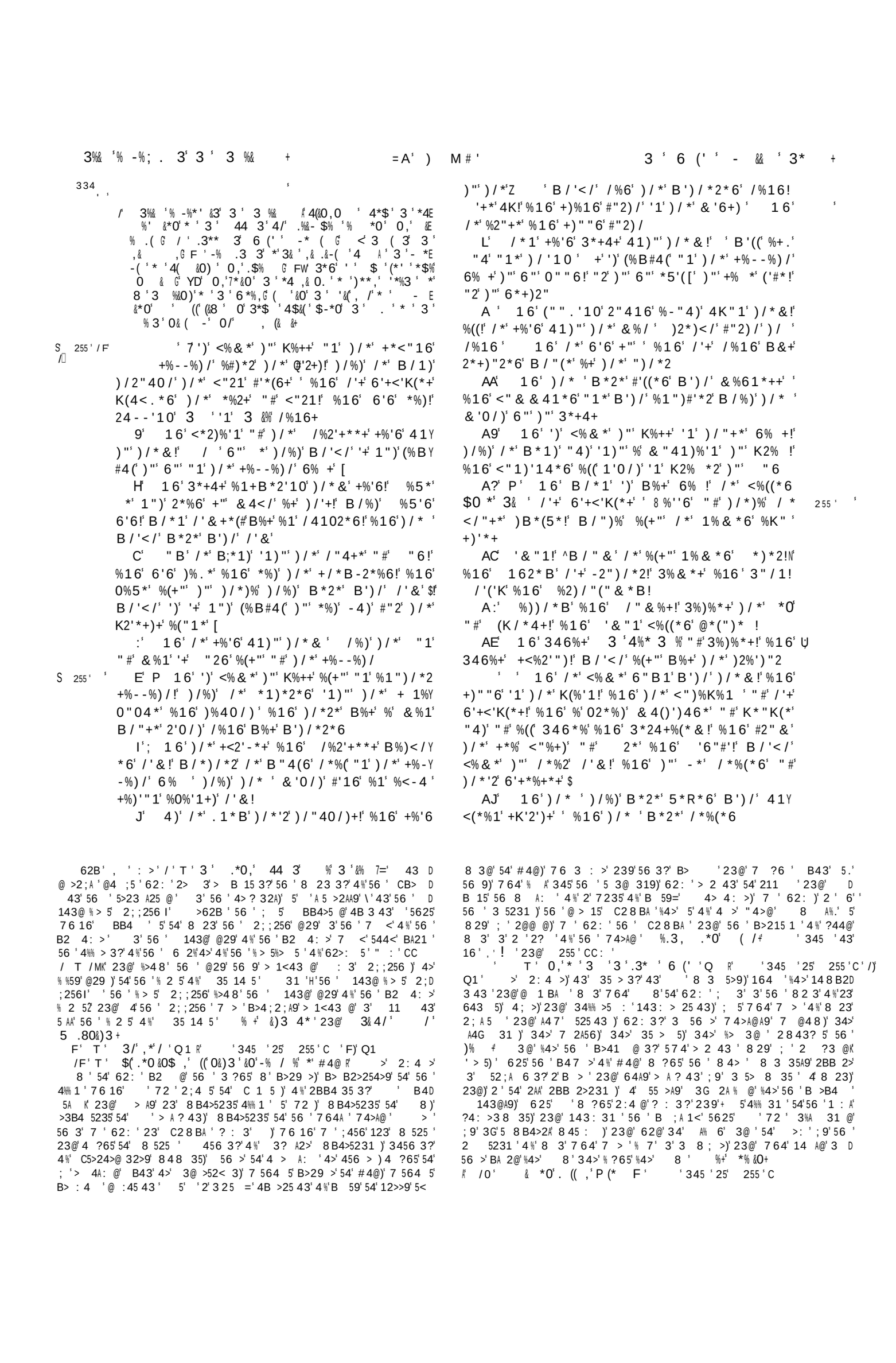




Painted by Raphael. *Engraved by G.Cooke.*

THE MIRACULOUS DRAUGHT OF FISHES.

Luke C.5.V.8.



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C9' ')/*2' /"B'<%1+)')/"4'+% ')"')/ ' -2"Y
)/*2!' 2")/*2!;'(*)' &*' K4((' "4)')/*' &")*')/%)'
'+' '1')/'1*' * *!' B/*1')/"4')/ +*(#-*/"(6Y
+)' 1")')/' -*%&')/%)' '+' '1')/'1*' "B1' * *['
/"4'/ K"<2')*!'<%+)' "4)'#'2+)')/*' -*%&' "4)'
"#')/'1*' "B1' * *!' %16')/*1'+/%()')/"4'+**'
<(*%2('')"' K4((' "4)')/*' &")*')/%)' '+' '1')/ '
-2")/*2+' * *
P 255'W C?' 7 "2' %' 0""6')2**' -2'10*)/' 1")' #"2)/'
D <"224K)' #24')' 1*')/*2' 6")/' %' <"224K)')2**'
-2'10' #"2)/' 0""6' #24')
CC' "2' *5*2 ')2*' '+' .1"B1' - ' /'+' "B1'
#24')' "2' "#')/"21+' &*1' 6"' 1")' 0%)/*2'
#'0+!' 1"2' "#' %' -2%&-(*' -4+/' 0%)/*2')/* '
02%K*+
C:' '0""6' &%1;"4)' "#')/*'0""6')2*%+42*'
"#'/'+' /*%2)' -2'10*)/' #"2)/')/%)' B/'</' '+'
0""6' %16' %1' *5'(' &%1' "4)' "#')/*' *5'(
)2*%+42*' "#'/'+' /*%2)' -2'10*)/' #"2)/')/%)'
B/'</'+' *5'(' #"2' "#')/*' %-416%1<*' "#')/*'
/*%2)'/'+' &"4)/'+K*%.*)/
[' 2A5' W' CE' P' 8 16' B/ ' <%((' *' &*' "26!' "26!'
%16' 6"' 1")')/*')/'10+' B/'</' ' +% ' [
CI' /"+"*5*2' <"&*)/')"' &*!' %16' /*%2 '
)/' & ' +% '10+!' %16' 6")/')/*&!' ' B'((
+/*B' "4)"' B/"&' /*' '+' ('.*
CJ' *' '+' ('.*' %' &%1' B/'</'-4'()' %1'/"4+*!'
%16' 6'00*6' 6**K!' %16' (%'6')/*' #"416%)'"1'
"1' %' 2"<.' %16' B/*1')/*' #("6' %2"+*!')/*'
+)2*%&'-*%)' 5*/*&*1)(' 4K"1')/%)' /"4+*!'
%16' <"4(6'1")' +/%.*')' #"2')' B%+' #"416*6'
4K"1' %' 2"<.
CL' 4)' /*')/%)' /*%2*)/!' %16' 6"*)/'1")!'
'+' ('.*' %' &%1')/%)' B')/"4)' %' #"416%)'"1'
-4'()' %1' /"4+*' 4K"1')/*' *%2)/' %0%'1+)

B/'</')/*' +)2*%&' 6'6' -*%)' 5*/*&*1)(!'
%16' '&*6'%)*(' ')' #*((' %16')/*' 24'1' "#' +'
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' 3%& '(0, 3' ')% %' &3'&38'.X&$%&*0' ' 0&('
3 0'&0' 0/'*' 3' 6 G /'3 (3'3&' %' 0'4 &0)'
) 4 0G //'%& 3'%*' ', 3'3'6&,*6T' *0' ' &OG+
/J' 0 6 % 3' *30T' 0) %'6&3'3', .(% &*0'*'
3&' && .(G FN' /& 3' *' 3'- *-(' 63 ' *-&0&*0'
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6&3'0&3 %' 3': 00%' *' *30'0*%' *' $'.*$(,'
4'6*0G' HD' 0,' 3 6 3'4/'*.. &*0' 5 %/'5)E
,(0'3*6'3'&' ' %& 0,' *' &00 %'0*' *' &0 &0'
3 '&0' &0 '3$' *' *%)&' ' 3 ' 3 &%' &0 '$-*0' 3 &%'
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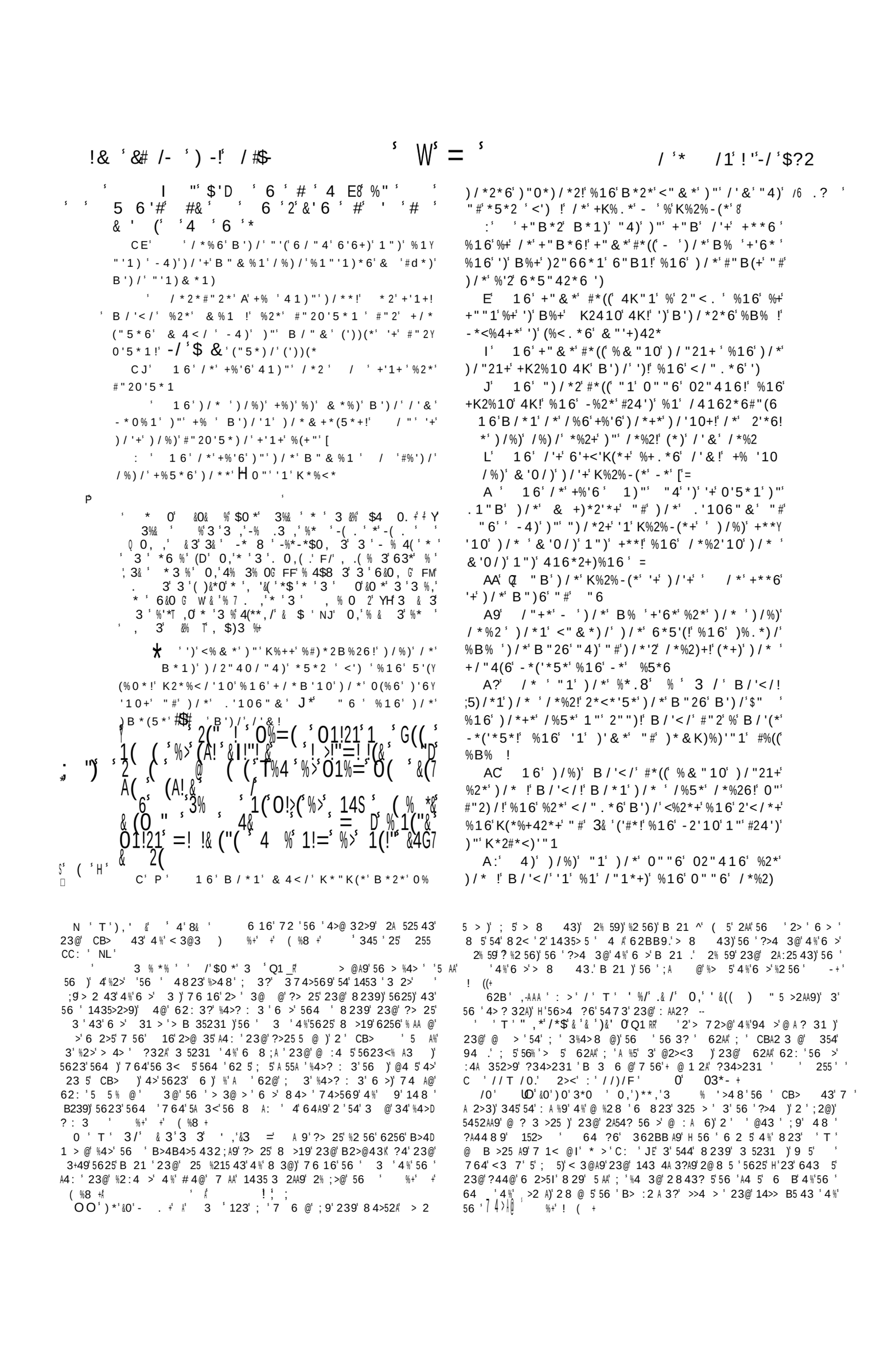
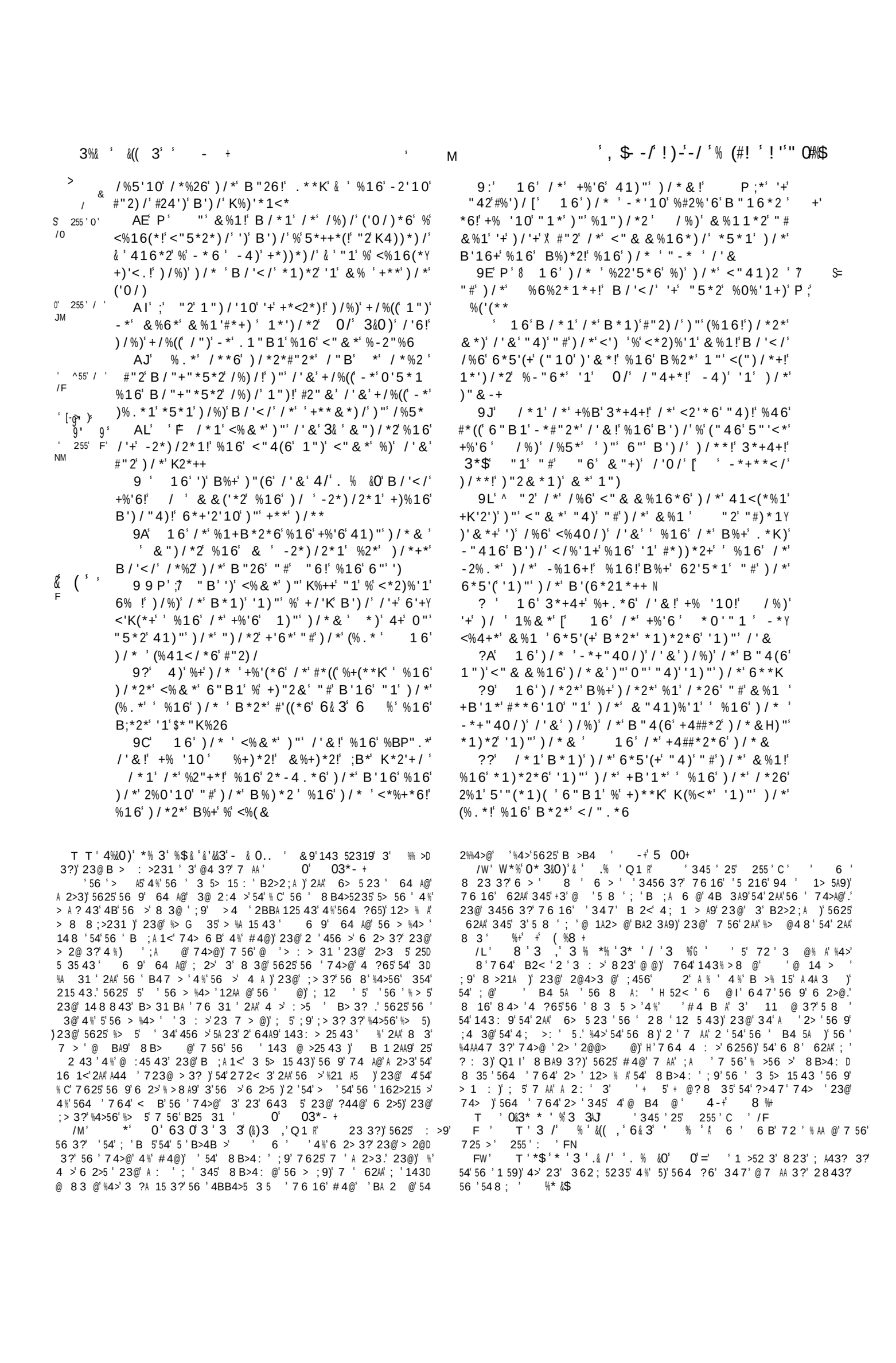
' B/*1'/*'/%6'*16*6'%((' /'+'+% '10+
'1')/*' %46'*1<*' "#')/*' K*"K(*!' 7/*' ' 255') '
*1)*2*6'1)"' %K*21%4&
9' 16'%'<*2)%'1'<*1)42'"1 +'+*25%1)!' B/"'
B%+' 6*%2' 41)"' /'&!' B%+' +'<.!' %16' 2*%6 ')"'
6'*
?' 16'B/*1'/*'/*%26'"#' 3*+4+!'/*'+*1)'
41)"' /'/'')/*' *(6*2+' "#')/*' 3*B+!' -*+**</Y
'10'/'&')/%)' /*' B"4(6' <"&*' %16' /*%(' /'+'
*25'%1X
3-' 16'B/*1')/*' '<%&*')"' 3*+4+!')/*'
-*+"40/)' /'&' '1+)%1)(!' +% '10' /%)' /*'
B%+' B"2)/' #"2' B/"&' /*'+/"4(6'6"')/'+
:' "2' /*'("5*)/' "42' 1%)'"1!' %16' /*' /%)/'
-4'()' 4+'%' + 1%0"04*
E' /*1' 3*+4+' B*1)' B')/')/*&' 16'
B/*1'/*' B%+' 1"B'1")' #%2' #2"&')/*' /"4+*!'
)/*' <*1)42'"1' +*1)' #2'*16+')"' /'&!' +% '10'
41)"' /'&' "26!')2"4-(*1")')/ +*(#' #"2' '
%&' 1")' B"2)/ ')/%)')/"4' +/"4(6*+)' *1)*2'
416*2' & '2""#'
I' /*2*#"2*' 1*')/*2')/"40/)' ' & +*(#'
B*%()/ ')"' <"&*' 41)"')/**' -4)' +% '1' %'
B"26!' %16' & '+*25%1)' +/%((' -*' /*%(*6
J' "2' %(+"' %&' %' &%1' *)' 416*2' %4)/"Y
2') !' /%5'10' 416*2' &*' +"(6'*2+!' %16' +% '
41)"' "1*' "!' %16' /*' 0"*)/' %16')"' %1Y
")/*2!' "&*!' %16' /*' <"&*)/' %16')"' & '
+*25%1)' "')/'+!' %16' /*' 6"*)/'&+
L' /*1' 3*+4+;/*%26')/*+*')/'10+!' /*' '
&%25*((*6' %)' /'&!' %16')421*6' /'&' %-"4)!'
%16'+%'6'41)"')/*'K*"K(*')/%)'#"((" B*6'/'&

/*$%'&* * + ' '345 '25' ' CC C' /F
HZ' T' 0' 3' 5&0,' (,' 3' 4(&0,'=/' &9' 56 'B2>2;A'4>' B>4D
: >;)' 4 >' "4>@' 52< '4112 43' 54' 5 216' '@ 1 BA '56' 3 1 59'
4%'12> % AA9' 255 3@ 3?' 54' 56 '5> '325 > '4%' '> A ? 43)' 3' 4>@ >'
5625' 56 9' 829' > ?65A9' 3 5> 15' 456 > ' 3' 5)' 23@' 829' 5' 2 ' CD
28BA' 3' 56 >' 473' B>215 1 '4%' 2AA' 564 ' : >5 '76 16' 5' '56 >'
@ 59' 54' 31 A125 ' -+' 5 00+
N ' 3 ',& .&-(' & '0*' 4** 'Q .R' %' 239' 4%' 5A ' 9' 148 D
823@8 35 ' 8' 62> 6' 54' 943)' > 8 8 ;>' 5625' ' 94 >' 2 5 >'
62: ' ;8 55 @' 54' 56 8' ; %4> '94 ' 0' 03*-+
Y\+' L' 0,' :630' 3' (**,' %* ' 6 '>2 3' 3' * @ 2' ; 3?'
4%5 3' C5> 8 A9' : 4A 35)' 23@' 56 '18 85>9' : >9' 6 AA9)' 143 @ >2;A

3 3@25 43' %> G 35A9' 411 >)' 7 6 16' 2> '@23? >4 '54' ; A@ 3? '
5625' 62BB 3' 54' ; 'BA21 @' 7 56 3'= >'> 216)' ; 9' 7 2 6 3?' 2729' 56 '
4 A' %>48' 3@ >' 56 23)' 23@' 56 '4112 43 3?' 56 >' %2AA' ! % %+

62B', ' : >' 'T '3' 0' $0 *' 3& ' 3' (, %' ; '3' A6 +'
23 3?' B>4;2;A9' 56 ' A@ > '4%' 56 ' 932?4?)' 63&.3' 3 '1 35 D
> 43' 62@' ; A5' : >' 0E' 25' 2B >32 8' -+ %. +' 5' ' 525 @'
;9' 5' 2556 7)' 162B '9 '0)' 5625' 56 '1 35 > 43' 128 '54' * '.'
; 5' 5' '2' : >9' 2A' 23@' 148 843' %4> 8' 4%' CB> 43)' 54' > B> D
35' 2' B > 43')2' @4 3?' 5625' 6 8 A%' 76 16' 6 ' @4 ' ; 9' 8 23 '4%'
456 > ' ' 8 A2>' 3 5231)' XC4@' C: ' M.' / ! 3? ' : ' W '
2><' C' 0)' 148 B2> @' 7 56' 255' CC' F ' %+' 3& 4/+





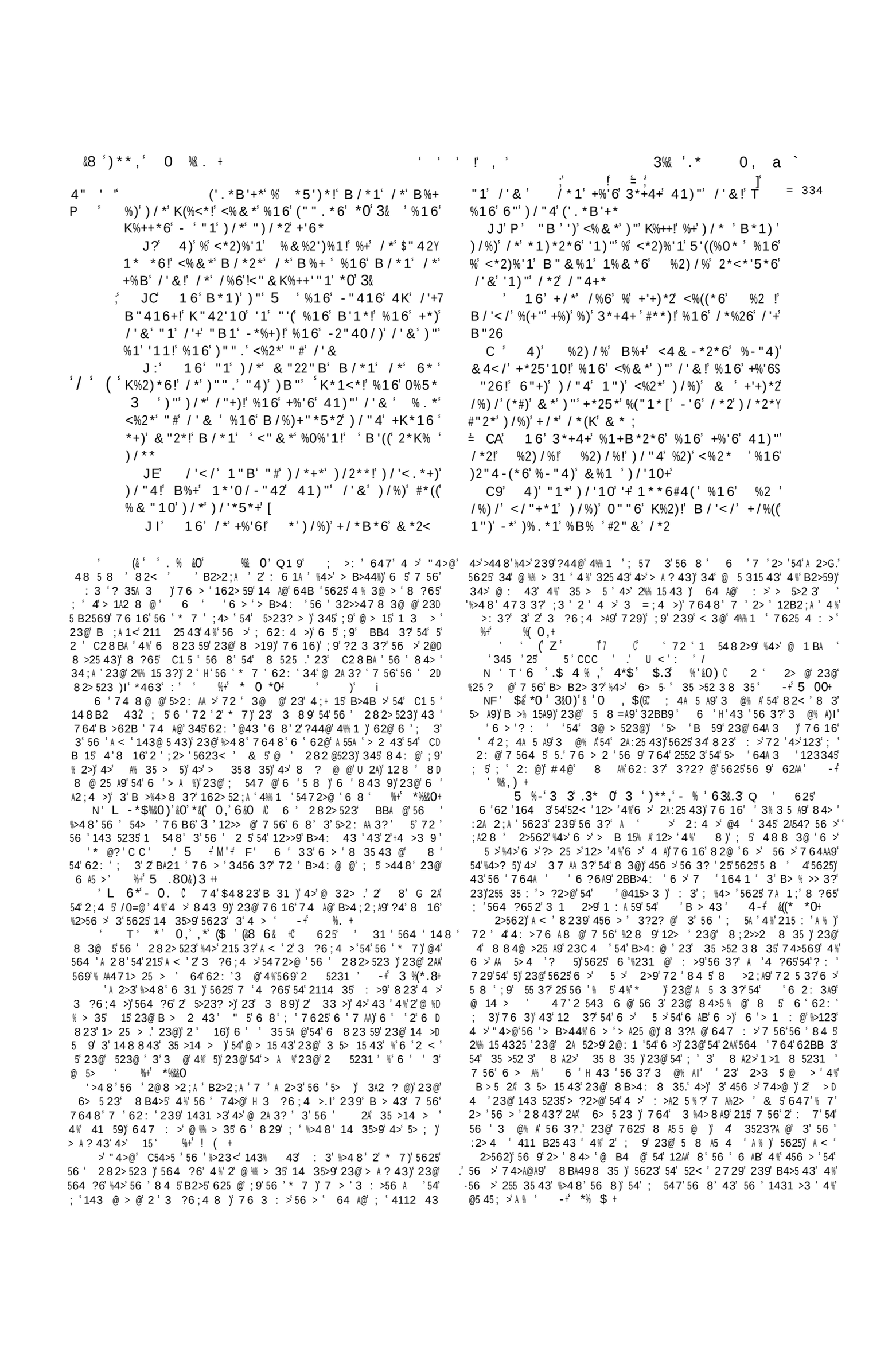
Painted by Le Sueur.

Engraved by H.Moses.

MARTHA AND MARY BEFORE CHRIST.

Luke ch.10. ve.38.

Published by the Society for promoting Christian Knowledge. July 1.1845.



3%& '3 (3' 3 '.%**8 ,A6*0 0 ' # 3 '- % 4(' * ' 3 ' $ %,' A ,+

P 1"1*' <4)' ')' 6"B1 ' B / ' <4&-*2*)/' ')')/*'
02"416' [
J' 16' /*'%1+B*2'10'+%'6'41)"' /'&! "26!'
(*)' ')' %("1*')/'+' *%2' %(+"!')'((' '+/%((' 6'0'
%-"4)' ')!' %16' 6410' ')
L' 16' '#' ')' -*%2' #24')!' B*((' %16' '#' 1")!'
W & %#)*2')/%)')/"4' +/%()' <4)' ')' 6"B1
A ' 16' /*' B%+')*%</'10' '1' "1*' "#')/*'
+ 1%0"04*+' "1')/*' +%--%)/
AA' P' 16!'-*/"(6!')/*2*' B%+' %' B"&%1'
B/'</' /%6' %' +K'2')' "#' '1#'2&') ' *'0/)**1'
*%2+!' %16' B%+' -"B*6')"0*)/*2!' %16' <"4(6'
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A9' 16' B/*1' 3*+4+' +%B' /*2!' /*' <%((*6'
3 %' *' 3& ' %16' +%'6'41)"' /*2 ' "&%1!')/"4'
%2)' ("'+*6' #2"&')/'1*' '1#'2&')
A?' 16' /*' (%'6' 3& ' /%16+' "1' /*2 ' %16'
'&&*6'%)*(' +/*' B%+' &%6*' +)2%'0/)!' %16'
0("2'#'*6' "6
AC' 16')/*' 24(*2' "#')/*'+ 1%0"04*' %1Y
+B*2*6' B')/' '16'01%)'"1!' -*<%4+*')/%)' 3*Y
+4+' /%6' /*%(*6' "1')/*' +%--%)/ 6%!' %16'
+%'6'41)"')/*' K*"K(*' /*2*'%2*'+'R' 6% +' '1'
B/'</'&*1' "40/)')"' B"2.' '1')/*&')/*2*Y
#"2*' <"&*' %16' -*' /*%(*6!' %16' 1")' "1')/*'
+%--%)/ 6%
A:' /*' "26')/*1' %1+B*2*6' /'&!' %16'
+%'6' 3*$' / K"<2')*!' 6")/ 1")' *%</' "1*'
"#' "4' "1')/*' +%--%)/ ("'+*' /'+' "R' "2' 3& '
. ' #2"&')/*' +)%((!;%16' (*%6' 3& ' %B% ' *'
B%)*2'10' [
AE' 16' "40/)' 1")')/'+' B"&%1!' -*'10' %'
6%40/)*2' "#' -2%/%&!' B/"&' %)%1' /%)/

\≠ T ' *%,'('&' (*0 'Q1 *' 6 ' #4@)' ;9' 3@ 37' 6> 5'23@'
' B4 5A ' 54' B> 216' 56 ' #4 B A' 54' 56 ' * 7)' 82@ '56 8' 43 '
4%% >' 4%' 8 >19' 8 4> .' 23@' ?2: ' 56 8' 43 ' % >56 >' B21 ' %4>' > ')
B 35231 K 2%5 >' 7 6 16)' %'56 9' > + 15 @' 5' ' >> : > ;A9' @ 5 >D
8 3 @' 54' @ 5>49' 56 8' 7 564 5' 8 >19 ' 3@' 56)' A < 7)' 54'
: >9' 4; 5 325 ' 33 >' # 4@' 4%% > ' 8 23 '23@' 5 8 '%4>' > B 35231 .'
; 5' 25' A2 5)' %' 6 '1435 3 ' 8B 3 5 35)' 1 5 ' 6 8' 4%%' 23@' @ 5>49 '
6 8' >> 14: >2 ; A9 ' %+' +' (%8 +
//' T ' ' -&%&' * &0 && & ' ' 4> ' @ 2 ' 3%A 15 @' @>' 6 >' ; 9'
56 ' B47 >' 4%' 2523' : > ' /ME' %4>' ?65 3' 9 2> ' %+' ! *0,+
5' ' %% 1 35A9' 1A 2>' %>4 8' : >2A' B2>5 ' 4%' 1> B5 > ' 6 54>9)' 5625'
8239' @ 2 ' 7 > ' ; 9' : 3 ' B >8 43' ; >4 ?65' B43' 8 3' ; 9'
: A' B > 5)' 48 5 8 ' 1431 >> 37' 7 56' 325 >2A' 12)' 23@' 48 D
5 8)' B >62B)' 215 37' 7 564 5' 56 8 ' %+' 3& 4/+
/0' T ' 3 '8/-*.%& & ≠ ' 4' 12AA ' 6 8)' 2 ' B> 5 3@ 37' 2' > D
?2>@' %4>' > A ? 43' 76 16' 6 ' @ @' 345' % A
/M' T ' 4 &0)' ' , $)3 % ; ' 4% 3) ' 5 5A ' 7 6 16' 56 ' * 7 '
6 ?6A9' :2A @' 255' A ' J .' " < ' ' L .' *463': ' H2 15 ' C '
FM' %* &$ +
H# T ' % ' 3 % ' 6' 3 ' 4 ' ' ,'] ' 6 ' G 5 43' 8 '54' ; '
B>4B4 3@ @' 2?> 2 ; A9' 54' 56 ' 4B 3 43' 4%' 56 ' * 7)' 5625' 2AA' >2 AD
5 ' 64 A@' 62: ' 56 >' B4>5 43' 3' 56 ' 74>A@' 54' 148 ' 6 ' 8255 >'
72 ' 8 16' @ B 5 @' 2843?' 56 >' @4154> .' 4' 5625' B >62B ' 56G'
G 543' 72 ' 345' 12B5 4 A9' B>4B4 @)' ; 5' %4>' 56 ' > 2A' 25 %215 43'
4%' 56 ' 3G > >' % +' 3& 4/' 23@ &)3 ** +
T T ' 0,'3 ' &,' $0 *' 3 AJ >' "4>@' > B>4: ' 56 ' 3G D
5: 3 ' 4%' 56 ' B > 43' 764' 2 < @' 56 ' G 543)' ; 9' 2' A 31 ' 54D
72>@ ' 6 8' B > 432AA9)' 5625' CB> @' 25' 431 ' @ 8 59' 23@' 8 A@D
3)' 23@' 2@@> ' 8 A%' 54' 2AA' 764' 2> ' B 35)' 21G 2 35 3?

' # 3 '- % 4(' * ' 3 ' $ %,' A ,+

-"4 '6!' ("!')/*+*' *'0/)**1' *%2+!' -*' (""+*6'
#2"&')/'+' -"16' "1')/*' +%--%)/' 6% ' [++'
AI' 16' B/*1' /*' /%6' +%'6')/*+*')/'10+!'
%((' /'+' %65*2+%2'*+' B*2*' %+/%&*6 ' %16' %((
)/*' K*"K(*' 2*$"'<*6' #"2' %((')/*' 0("2'"4+'
)/'10+')/%)' B*2*' 6"1*' - ' /'&
AJ' P' Q /*1' +%'6' /*' 1)"' B/%)' '+')/*' Q %))'*!'
.'106"&' "#' "6' ('.*' [%16' B/*2*41)"
+/%((' 2*+*&-(*')' [
AL')' '+' ('.*' %' 02%'1' "#' &4+)%26' +**6!
B/'</' %' &%1')"".!' %16' <%+)' '1)"' /'+' 0%2Y
6*1' ' %16' ')' 02*BS'%16' B%R*6' %' 02*%)')2**'
%16')/*' #"B(+' "#')/*' %'2' ("60*6' '1')/*!'
-2%1</*+' "#' ')' ! =
9 ' 16' %0%'1' /*'+%'6!' Z /*2*41)"' +/%((' '
('.*1')/*' .'106"&' "#' "6' [
9A')' '+' ('.*' (%5*1!' B/'</' %' B"&%1')"".
%16' /'6'1')/2**' &%+42*+' "#&*%(!')'((')/*' 1 **' &
B/"(*' B%+' (%5*1*6
99' G 16' /*' B*1)')/2"40/')/*' <')'*+' %16' 8' (' '
5'((%0*+!')*%</'10!' %16' $"421* '10')"B%26'
3*24+%(*&
9?' /*1' +%'6' "1*' 41)"' /'& ' "26!' %2*'
)/*2*' #*B')/%)' -*' +%5*6[' 16' /*' +%'6' 41)"'
)/*&!
9C' P' ;)2'5*')"' *1)*2' '1' %)')/*' +)2%')K (['
0%)*' #"2' &%1 !' '+% ' 41)"' "4!' B'((' +**.
)"' *1)*2' '1!' %1%' +/%((' 1")' -*' %-(*'
9: /*1' "1<*')/*' &%+)*2' "#')/*' /"4+*' '+'
2'+*1' 4K!' %16' /%)/' +/4)')"')/*' 6"" 2!' %16' *'
-*0'1')"' +)%16' B')/"4)!' %16')"' .1"<.' %)')/*'
6"" 2!' +% '10!' "26!' "26!' "K*1' 41)"' 4+'
%16' /*' +/%((' %1+B*2' %16' +% ' 41)"' "4!'
.1"B' "4' 1")' B/*1<*' *' %2*

56 8' 7 56' 2AA' 76 16' 5' 72 ' 3 1 2>9' %4>' 56 8' 54' <347' 23@' > D
8 8 ; >)' 3' > A25 43' 54' 56 ' ;+ 15' 4-+' 8 %+
F"' %&' * 0 %&O' Q1 A' 6> 5' 6 > ' 6 7)' 5625' 56 ' 3 8 ; >'
4%' 564 ' 764' 829' ; ' 2: @' ' 345' @ % 3 @' ; 9' 239' @ 1> ' 4%' # 4@.'
; 5' 5625' 2AA' 829' 4 ; 52 3' 2A:25 43' 764' @ BA29' 143 52319)' @ A D
? 31)' 23@' B >2?)' 3' 143%A 15 37' 7 56' 56 ' 74>A@)' 56 ' %A 6)' 23@'
e ' @ : A' %+' 3& 4/+
' 12 543 ' '544)' 3' 56 ' 23 7 >)' 2?2 3 5' 33 1 2>9' 1 > 4 59'
2;4 5' 56 ' 2A:25 43' 4%' 456 > .' ; 5' 5 216 ' ' 54' ; ' 12> % A' 3'
74><37' 4 5' 4 >' 473' H' 7 56' % 2>' 23@' 5> 8 ; A 3?)I' 6 A ' "' / F.E'
5625') 7 56' @ A ? 31 ' 23@' 6 8 A 59)' 345' 5> 5 3?' 54' ; >' 473' 8 D
>5)' ; 5' 54' # 4@-' 8 >19=' -+' 5 00# ' ?3 %)' 5A75' 5' 72 '
345' 56 ' ; 3 ' 4%' 823<3@' 54' B>9' 354' 7625' # 4@' 62 ' 6 @)' ; 25'
54' 8 3@' 7625' ' 62 ' > : 2A @)' 23@' 54' 82 5 >' 23456 >' @ %% 1 A59.'
5625' 4%' %% A% 3?' ' 148 823@ .' 5625' 8 A5 5 @)' 3@ @)' 764'
B8% @')' > A ? 43)' 74 A@' % 32AA9' 2BB 2>' 54' 62: ' B>4% @' 5'
3' : 2 3.' ; 5' 5625' 2AA' 56 ' 72 ' 345' 54' ; ' 8255 >' 4%' @A ' B 1 A25 43'
2843? 5' 8 3K' 56 9' 2> ' 216' 54' 52< ' 12> ' 23@' B>215 ' 56 >' 473'
@ 5 .' 7625 : >' 3 8 ; >' 829' ; ' 2: @)' ?> 25' 4>' 82AA)' 56 9'
<3 7' 56 ' 729)' 23@' ; 5' 43 ' 729' 56 > ' 72)' 54' ; 148 ' B2>5' 4%' 5625'
3 8 ; >' 4-+' 8 %+
0,' (('0*' 4' +' 5' '345' 8 235' 5625' 239' 6> 5 23
7 AA' : >' 31 > A9' @4' 6 ' ; 5' 54' 35 >' 354' A % ' 5 >32A)' 23@' %2 A' 3'
5.' ; 5' 5625' 8 239' 82? 3 ' # 4@' 62 ' 82>< @' 4 5' 456 >' 729 ' 54'
62BB 3 '5623' 4 ; 9 3?' ' A2 7 .' 23@' 8 239' 544)' 764' 2> ' % AA9'
3 ;A ' 56 > ' ' 34' 456 >' 729)' ' 4' A 55A ' @ A ? 31 ' 3' %4AA47 3?)'
56)' 5625' 56 >' B>4?> ' ' 3 %% 1 35' 54' 82< ' 56 8')2>> : ' 25'
5 >32A' % A 1 59 ' (' 8 %

1 2') < "&K*(3)"< "&*'1!)/%) & /"4+*&% H -*1((*6
9C "2 +% 41)" "4! /%) /"1*" "#
)/"+* &*1 B/'</ B*2* -'66*1 +/%(( )%+)*
"#& +4KK*2!
9:P 16)/*2* B*1) 02*%) &4(')46*+
B')/ /'& %16 /*)421*6!%16 +%'6 41)"
)/*&!
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1")/'+ #%)/*2!%16 &")/*2!%16 B'#*!%16
</'(62*1!%16 -2*)/2*1!%16 +'+)*2+!*%!
%16 /'+ "BK ('#* %(+"! /* <%11")-* &
6'+<'K(*
9I 16 B/"+"*5*2 6")/ 1")-*%2 /'+
<2"++!%16 <"&*%#)*2 &*!<%11")-* 2%
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9J "2 B/'</"# "4!'1)*16'10")"-4'(6
%')"B*2!+'))*)/ 1")6"B1#'2+)!%16 <"41)
U*)/)/*<"+)! B/*)/*2 /* /%5* %&, 0)"
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9L *+)/%K(! %#)*2 /* /%)/ (%'6!)/*
#"416%)'"1!%16 '+ 1")%-(*)"#'1'+/& %((
)/%)-*/"(6&'-*0'1')"&"<./'&!
? % '10!/'+&%1-*0%1)"-4'(6!%16
B%+1")%-(*)"#'1'+/
?A 2 B/%) .'10!0"'10)"&%.* B%2
%0%'1+)%1")/*2.'10!+'))*)/1")6"B1#'2+)!
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%4>5>2: AA >)7 64@4345 35 3@54 529A43?3 2BA21)54> % 6
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23 215 4 < 3@3)345 4 > ?48)5472>@ 564 764 62@ 34
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6 CB> 43 123345; 3@ > 544@ 54 ?3 %9 239 56 3?4>
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76 A '56 9' 2> ' 7 6 3?'%4>' 84>' 5 8)' 5 >3 59' 7 AA' 72AA47'
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8 35'23@'@ 25 %215 43'76 16'6 '%4 3@' 3'6 ' :A'14 >)'23@'
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@ B2>@'4%' %'431 '2' >?65'> 4A 543' %4>8 @'54'; ' >4 '
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4%'%4 '5 3@ >3 ' 23@'148B2 43'4%'#4@'5472>@ 'B 3 5 35' 3D
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B 35 @)'23@'5 >3 @'A ' . '648 72>@)'7 ')'43'56 '456 >'623@)'
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14 35'56 '84>'62>@ 3 @'23@'2: > '%>48' 6> 5 23 59.' 23@'56 9'
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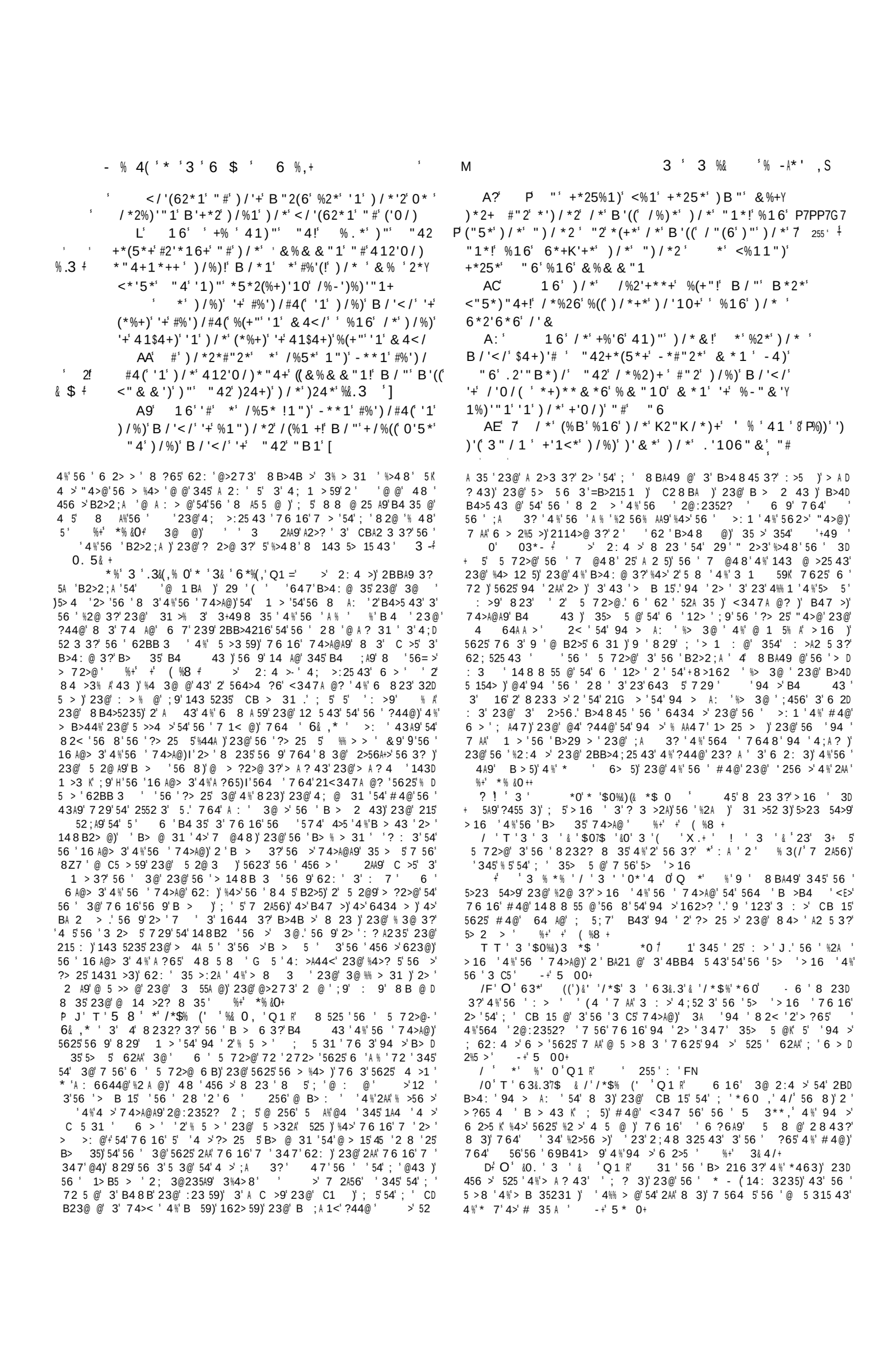
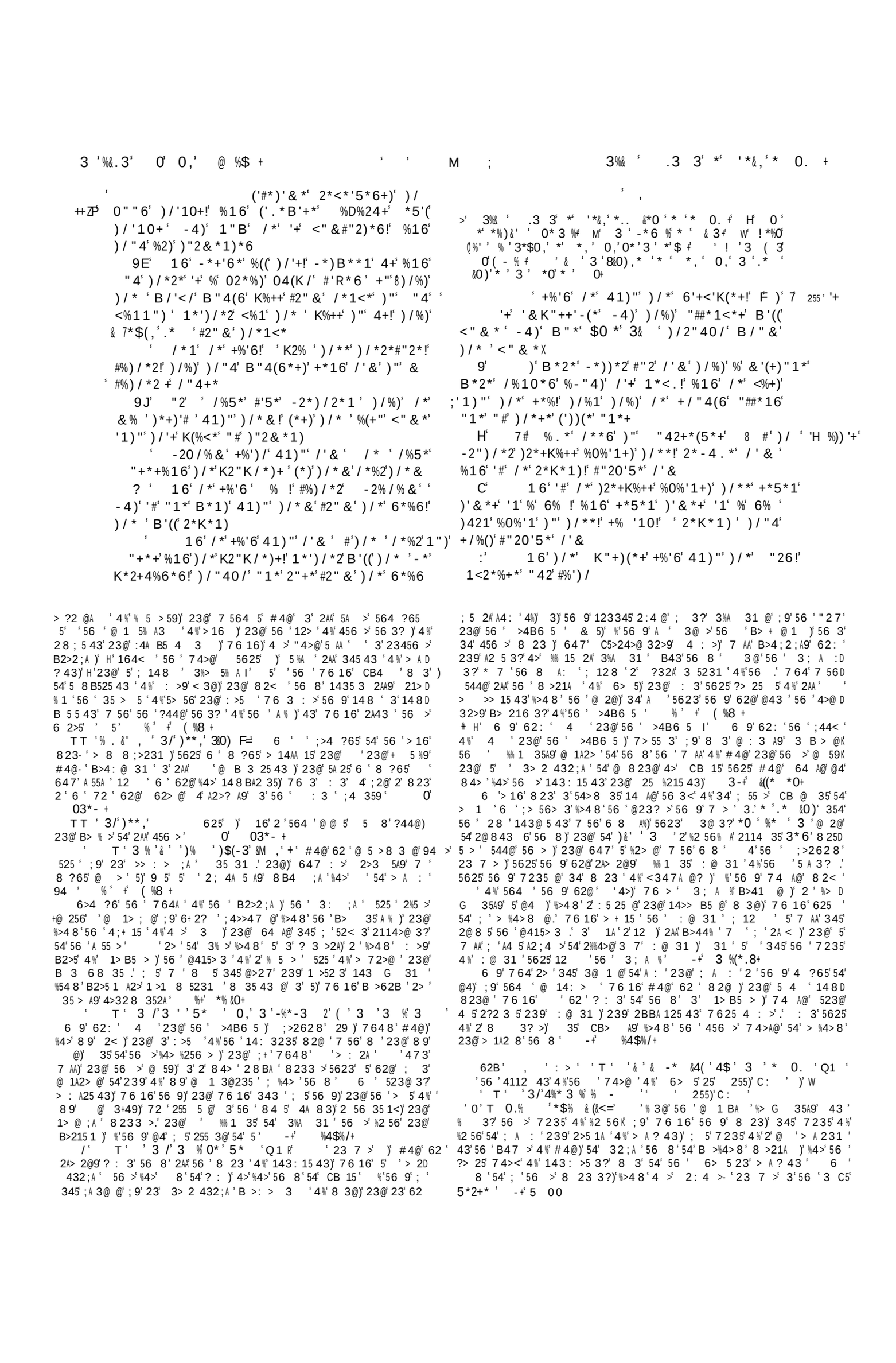
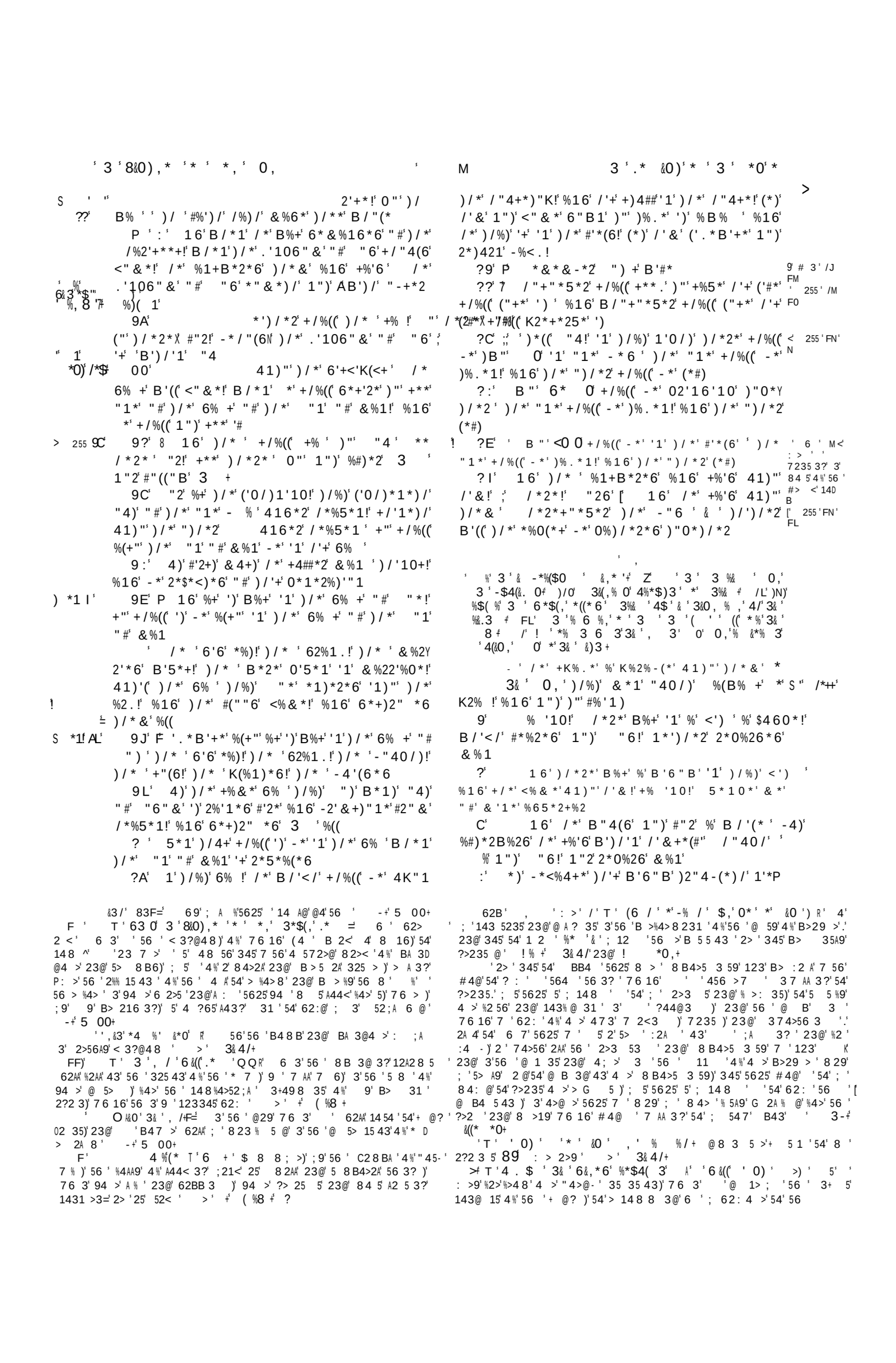
3 ;A '4%'6 '143 5235'@ 59'23@'4; @ 31)'76 16'7 > '84 5'21







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)/*'B/"(*'&4()')46*"#')/*'6'+<'K(*+'-*0%1'
)"'2*$"'<*'%16'K2%'+*' "6'B')/'%'("46'5"'<*'
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5M' % '10!' (*++*6' 4')/*' b&0)')/%)

' T '*' %' 0'.&& ' %'6 '3 7'<3?@48
F/' W*%' ' % ,' 3 'Q1 =' 6 '7 1<@'8 3'764'2;)'4>'
25'A 2 5'82<'34'?44@' '4%'564 '2; A5 '76 16'#4@'62'?: 3'
56 8)'@ 8' 5'2'62>@ 6B'5625'56 9' 64 A@' ; '>G >@' ;9' 8'
54'52<'B2 3 '54' 8B>4: ' '?%5)'23@'54' 8BA49'23@' '56 8'
%4>'56 '?44@'4%'56 '74>A@' %+' ' (%8 +
)F' 3 % *% '3 0') ' '0*' 3*$' /' *0 /'&0*' 3'3 08'Q1 R'
'>48'6 31'7 'A 2>3'7625'>1 B5 43'564 'B>43'2>'A< A9'54'
8 5'7 56'%>48'56 >' B> 8 '* @?)'764' 23'BA 2@'3456 3?';' [
943@'2'3 ?25: '8 >5)'56 '8 >5'4%'@4 3?'3 56 >'?44@=34>'62>8
5' '345' 34 ?6'8 > A9'5625'7 '2; 52 3' '>48'?> 25'1> 8)'4>'5625'
' 3+49'4 > A: ' 3'23' 3@4A 35' 62>8A '5>23G AA 59)'23@'@D
: @' 8255 >' 4'3 1 A9'2'54' 2:4@' G 2AA9'56' 3143: 3 31 '4%'
: 1'23@'56 '%25? '4%': >5 .'B>2 3?'>A=43' 3'74>@)'A4: 3?'
5'B >62B' 3' B 1 A25 43)'; 5'A 2: 3?'56'5>4 ;A'4%'B>215 3?'5'
54456 >' 6 'A23? 4>'23@' 3215: 59' '2'< 3@'4%)A 562>?9' 3'
56' 4 A)'76 16'>3@ >'5' 55 >A9' 3 3 ;A'54'56'A%'23@' B>5'
4%'>A?43' 3@%% > 31' 3'239'?44@'12 ' ';A282;A ' 3'>D
A?43)'3'56' 6> 523'>A?43)'5' ' 3 BB4>52;A ' 5'@4 ': 4D
A 31'54'56' %>5'23@'% 3@28 352A' B> 31 BA' 4%'5625'>A?43)
9' 64' 62A5'A4: '56'"4>@'569'#4@'7 56'2AA'569'6 2>5 I' 6> '
5 =59' '56>4 ?64 5'23' 215: '>A?43.' 5'143 5'345'43A9' 3'
2; 52 3 3?'%>48' :A)'; 5' 3'; 3?'H'>2@9'54' : >9'?44@'74><)I'
5 ' ' ''23@)'%'7 ' 54B' 64>5' 25'56'%>5)'7 'A 2: ' 62A%'4%

4 >'; 3 ' 3@43 ' 6> 5' 8 A%'7 35' 2;4 5'@4 3?'?44@)'
23@' '62'B> 1>; @'2':2> 59'4%'B4 5: '23@'B>215 12A'@ 5 '
54' ' @ 1BA)'2'56' 143@ 5 43'4%'56 >')2A:25 43.'23@'62'
B> @'56'B >%4>8231'4%'56 '@ 5 ' B43'56 8'7 56'23' 2>D
3 53 ' 23@'2' %4>1'4%' CB> 43)'5625' 829'7 AA' 2+2>8'56'
564 ?65A)'23@'82<'56 8'> %A 15'7 56' >4 3 '43'56' CD
5> 8 '@23?>'4%'56 >' 5 2543' -+ *%& $ +
+ Z+D+ T'$0*' '%/'*0'63%.3' 3 3Q1 R' 6 ' 6> 5)'54'564 '
764' 8B>4: ' '?%5)'@4 ' 3'56 'B> 35'5 8 '2@@'1435 3 2AA9'
84>'23@' 84>'2 5231)'23@' 7 AA' % 32AA9'> 72>@'56 8'7 5A'
5 >32A'A % K' ; 5'%>48'564 '764' 8B>4: ' 345' '?>21'23@'2 D
5231)' ' 3'56 'B> 35'5 8 '7 56@>27 ' : 3'7625' '62@'
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3 68 35' %+ + (%8 +
FW' $' 3* ' &0' 0 & 'Q1 RE' 3'56 ' 28 '8233 >)'2 ' '
35 825 ' '7 AA'@ 5>49'56 '> ; AA 4 '325 43'4%'56 '* 7)'764'
4BB4 @' '#4 B A'23@'56 ' 52;A 68 35'4%' '< 3?@48)'7 56'
2' 84 5' : >'23@' C 8BA2>9'5 8 B4>2A' : 3? 231.'23@'25'56 '
@29'4%'+ @?8 35' '7 AA' A < 7 '143@ 83'2AA' '4B 3' 3 D
8)'764'62: '7 A% AA9'> + 15 @'23@' 4BB4 @' '#4 B A)'2 '
7 AA'2' '7 1< @' >:235)'764'62: '3 ?A 15 @'23@'@ 4; 9 @'
5)'54' 5 >32A'@ 256'23@'8 >9' %+' +' (%8 +
FL' T'6 0'4 *% =' & %4>' ' B4 5A '23@'@ 1BA ' '
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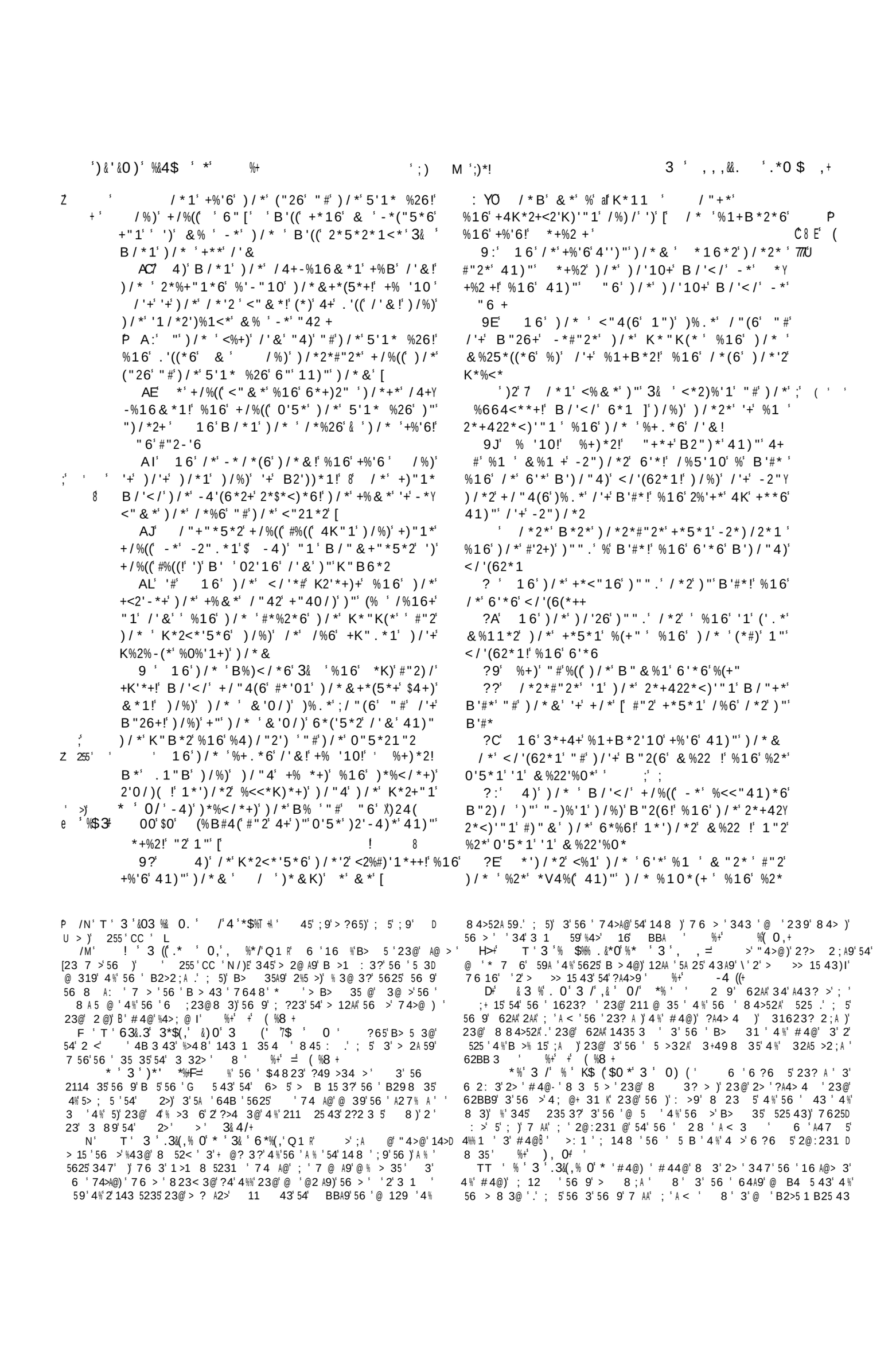

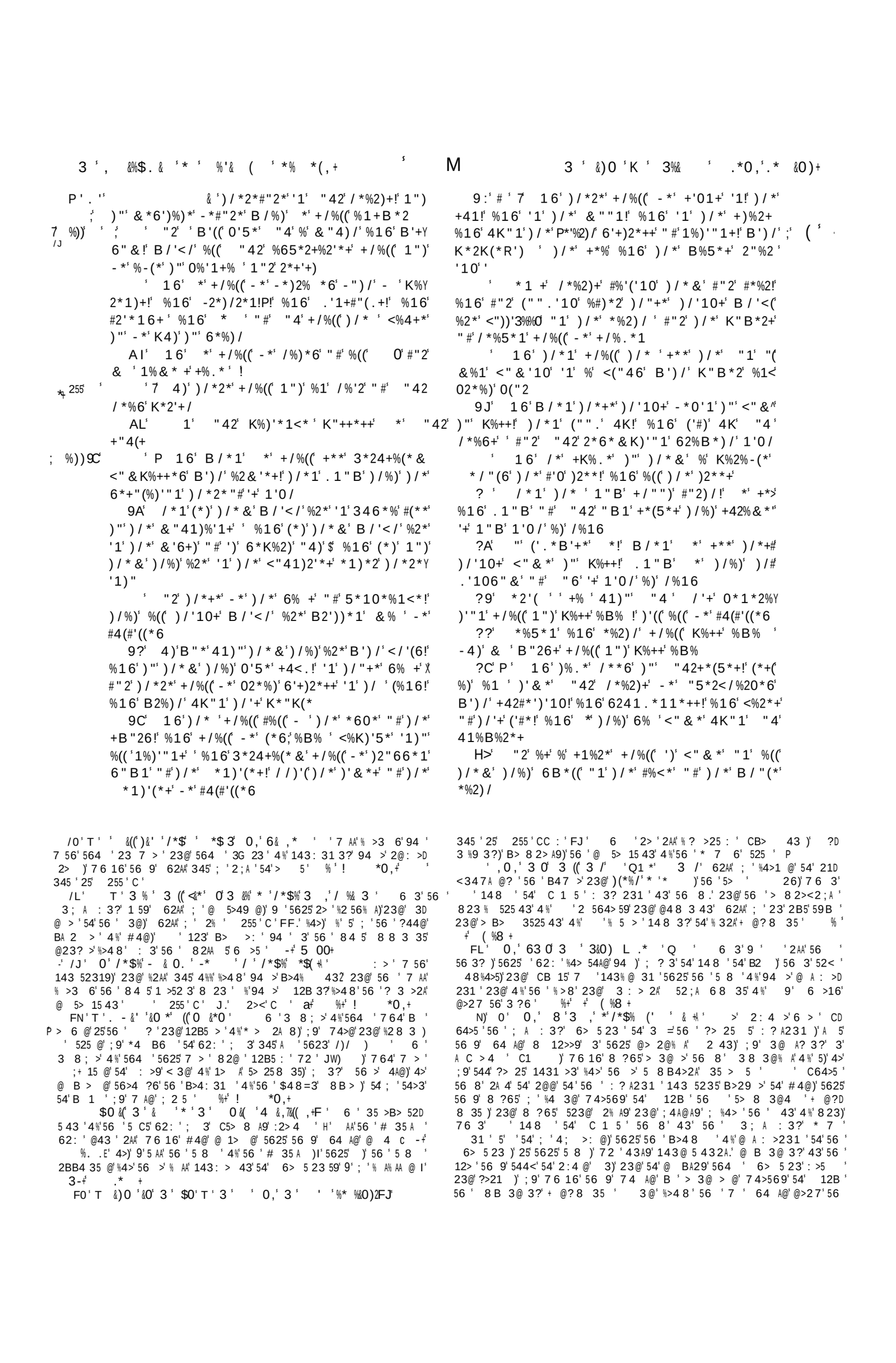

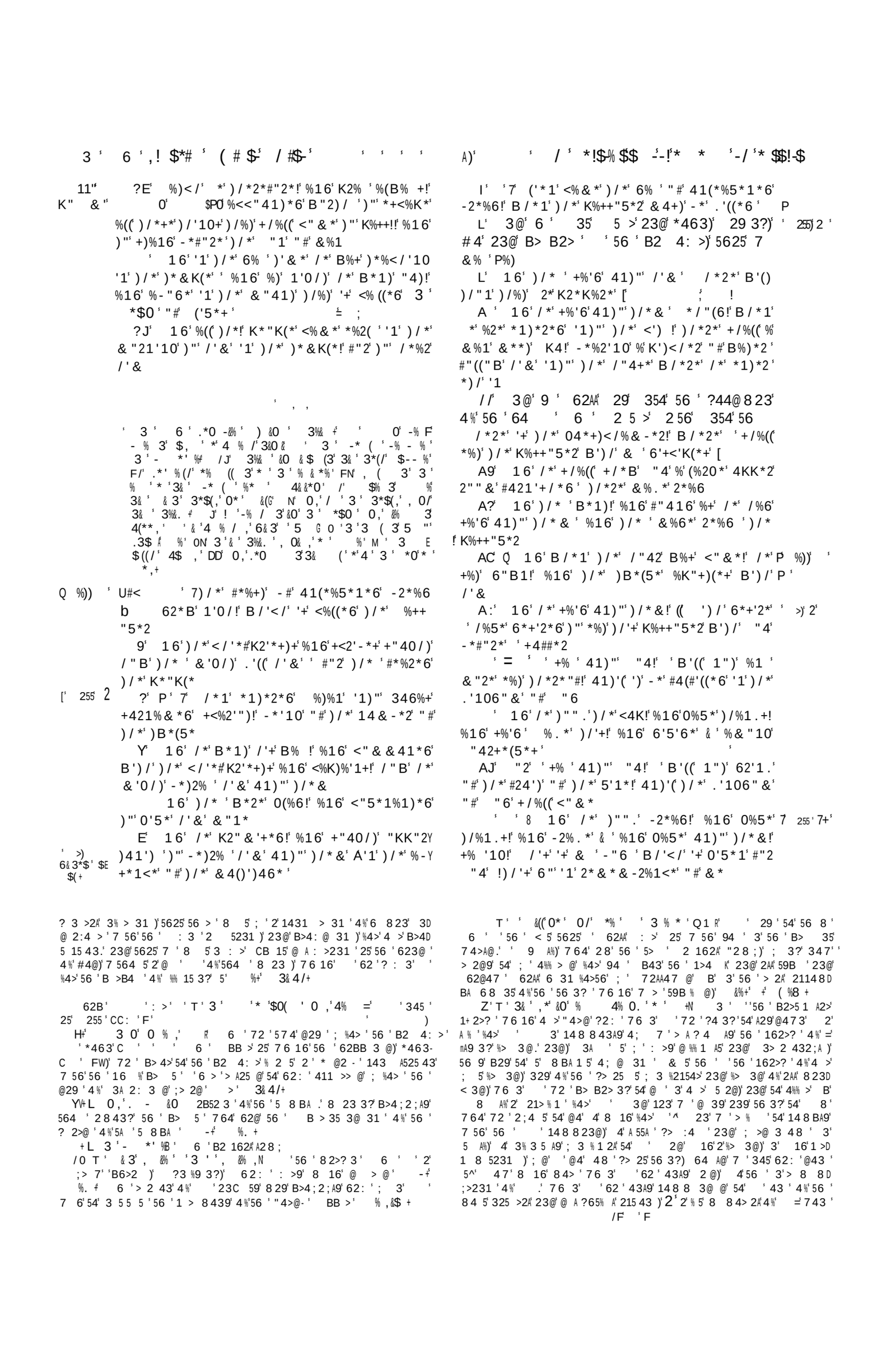

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Z' +% '10' /'+' <4K' #$)/*' 1*B')*+)%&*1)' '1'
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;' 255' ' 9A' P' 4)!'-*/"(6!)/*' /%16' "#'/'&')/%)
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99' 16')24(')/*' "1'"#'&%1'0"*)/!'%+' ')'
B%+' 6*)*2&'1*6' -4)' B"*' 41)"')/%)' &%1'
-' B/"&'/*' '+' -*)2% *6X
9?' 16')/* '-*0%1')"' *1V4'2*' %&"10'
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9C' P' 16')/*2*' B%+'%(+"' %' +)2'#*' %&"10'
)/*&!' B/'</' "#')/*&'+/"4(6'-*' %<<"41)*6
P)/*' 02*%)*+)
' GU 9:'7 16'/*' +%'6' 41)"')/*&!' /*' .'10+

"#')/*' *1)'(*+'*R*2<'+*'("26+/'K' "5*2')/*&'
%16')/*' ')/%)' *R*2<'+*' %4)/"2') '4K"1')/*&'
%2*' <%((*6'-*1*#%<)"2+
9E' 4)' *' $/ %% 1T:)' 4' +"' ' -4)' /*')/%)' '+
02*%)*+)' %&"10' "4!'(*)' /'&' /*' %+')/*'
"410*2' %16' /*')/%)' '+' </'*#!' %+' /*')/%)'
6")/'+*25*
9I' "2'B/*)/*2'#$02*%)*2!'/*')/%)' +'))*)/'
%)' &*%)!' "2'/*')/%)' +*25*)/'[' #$1")' /*')/%)'
+'))*)/'%)' &*%)' [' -4)' '%&'%&"10' "4'%+' /*'
)/%)' +*25*)/
9J' *' %2*')/*' B/'</' /%5*' <"1)'14*6'
B')/'&*' '1'& ')*&K)%)'"1+
9L' 16' '%KK"'1)'41)"' "4'%' .'106"&!'
%+' & ' %)/*2' /%)/'%KK"'1)*6'41)"'&*

334

1A >% A' A4: '54')' 23@' '1> A' %% > 3? '%4>' 4 >' 2< .' 76 3'
'62'43A9' 3+4 3 @' 7)' 3' 2' 5623<% A' 1488 84>25 43' 4%' '
?44@3)' 54' 8 5' 25' '52;A' 23@' 54' > 8 8; >' 7625' '6256'
@43 '%4%')' 54' A44<' B43' 8' 7648' 7 '62: 'B >1 @)' 23@' 54' > '
4A: '54' ?> : ' 23@' 74 3@' 8' 34' 84> '^ 23' 7)' 7 564 5' 56 '
84 5' 64>> ;A' 3?>25 5 @)' 3 ?A 15' 56 '@9 3?' 162>? '4%' 4 >' 4: D
> ?3)' 23@' 4 >' 2: 4 >)' 56 '?> 25' %> 3@' 23@' A4: >' 4%' 4 A' 2'
148 823@' 4' > 2 432;A)' 4' 2 9)' 4' % AA' 4%' ;A 3?' 23@' ; 3 %5 '
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6 '74>@)' 3%4>1 3?' B43' '56 ' '23@' 3 1 59' 4%' %> D
G 35' 1488 3 43)' 8 BA9' 48 56 3?' %2>' 84> ' ?3 %1235' 5623'
5625)' ;9' 1 A=>25 3?' 56 '64A9' 21>28 35)' 7 'B> >: '2' 8 84> 2A'
4%' 2' @ 1 2 @' ; 3 %2154>.' 56 9' 8 BA9)' 5625' 7 '56 > ;9' 1435 3 '
54' > 1 : ' '; 3 %215 43)' 76 16' 2> '143: 9 @' 54' '%>48' 5 8 '
54' 5 8)' 2' 4%5 3' 2' 7 '9' 6 7' 56 '"4>@-' @ 256' 5 AA' '148 \'
4' 5> ' '56 ' 2114 35' ? : 3' 4%' 56 ' 21> @' > 5 ' 3' 56 ' >5 D
1A '4%' 4 >' 6 >16)' 5625' 5' '345' 43A9' 56 ';2@? '4>' 54< 3' 4%' 2'
6> 52 ' 823-' B>4% 43)' ; 5' >256 >' 2' 1 >52 3' 23@' >' 7 53 '
23@' %% 15 2A' ?3' 4%' ?>21 ' 23@' #4@-' ?44@' 7 AA' 5472>@ ' .' ;9'
76 16' '@456' 74><' 3: ;A9' 3' ,)' 23@' @456' 345' 4359' G 1< 3'
; 5' 2A 4' 5> 3?56 3' 23@' 143%>8' ? ,' 52 56' 3' 8 ' -' %3 +
6 '1488 84>25 43' 4%' 6> 5-' @ 256)' 2' 56 ' ?>4 3@' 4%' 4 >'
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3 '4%' 6> 5-' A4: '54' 823< 3@)' 23@' 4 >' 4; A ?25 43' 4%' 8 5 8'
< 3@3 '54' 216' 456 >.' *463' C ' N)' 0.' C: ' /)' /N' '2> '
2AA' 12AA @' B43' +4 35A9' 54' 148 8 84>25 ' 56 'A4: '4%' 6> 5)' 2' 56 '
>:235 '4%' 43 ' 2 5 >' 23@' 56 '8 8; > '4%' 43 '; 4@9.' 5625)' 76 A '
4 >' 6 2>5 ' 2> ' 72>8 @' 7 56' > A ? 4 '?>25 5 @ ' 23@' @ :4 5' 2%% 1D
5 43' 54' 4 >' 6 2: 3A9'; 3 %2154>)' 56 ': >9' 215' 4%' 3 5 3?' 3' 56 ' 1 D
A ;>25 43' 4%' 56 ' 64A9' 23@' 8 B4>5235' > 5)' 8 29' B>4@ 1 ' 3' B '% AD
3? '4%' < 3@3 ' 23@' ; 3 :4A 31 ' 5472>@ ' 564 ' 7648' 7 ' '
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28 '64B '4%' : >A2 5 3?' 62BB 3 ' & 5' 56 '@ 256' 4%' 6> 5' 72 '
345' 8 > A9' 2' B>44%' 4%' 'A4: '54' 8 23< 3@.' 5' 72 '2A 4' 23' CB 2D
54>9' 21> %1 '%4>' 56 ' 3 '4%' 56 '764A '74>A@.' 23@)' 56 > %4>)' 56 '
2E>@-' BB >' 76 @' 1488 84>25 '5625' 21> %1)' 829'+ 5A9' ; '
52 A @)' 3' 56 ' A23? 2? '4%' 4 >' >5 1A)' 9' 2' 21>28 35' 4%' 4 >' > D
@ 8 B5 43 \' -' *0,&0 +
L ' T ' 3& '.$-' & ' 3' 0 ' & 2 0i ' 6 '1 B)' 8 23 3?' 56 '
7 3 '14352 3 @' 3' 5E' '56 '8 84> 2A' 4%' 56 ' 7' 528 35)' 4>'
14: 3235' >25 % @' 3' 9' ;A44@)' 76 16' ' 6 @' %4>' 94 '%4>' 56 '> D
8 43' 4%' 94 >' 3 ' 255' CC: 'FL' %+' 3& 4/+ 5' " < ' 2 '
2A 4' 5' 2 AE' > B4>5 ' 56 '74>@ '4%' 4 >' 2: 4 >)' 43' ? : 3?' 56 '
1 B)' @ %% > 35A9' %>48' 5' 2556 7' 23@' 5' 2><)' 23@' 5' 'B>4D
;2;A '5625' ' B2< '56 8' ;456.' 5625' '% > 5' 2 @)' H' 6 ' ' 9'
;A44@)I' 255 'CC: 'FL)E' 23@' 56 3' 2@@ @)' 2 '2' 1A 2> >' CBA2325 43)'
H' 6 '1 B' '56 ' 3 7' 5 528 35' 3' 9';A44@ \' 6 'A255 >' 72 '
2' 84> ' %2 8 A 2>' CB> 43' 54' 56 ' * 7 ' 6 9' <3 7' 5625' 56 '
;A44@' 4%' 56 'A2 8 ;' 72 ' B> 3<A @)' 23@' ; 9' 56 >' 4' @4 3?)' 56 9' 3D
5 > @' 354' 2' 14: 3235' 7 56' # 4@.' 3' > 8 8;>231 '4%' 56)' 56 9'
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+4 1 @' ; %4> ' 56 ' "4>@' 4' 5625' 56 9' 3 1 2> A9' 3@ > 544@' 4 >'
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4%' 2' 7' 528 35' 4>' 14: 3235)' 76 16' 72 '54' ; ' 52;A 6 @' ;9'
56 ';A44@' 4%' 6> 5.' 3' 56 ' BA21 '4%' 76 16)' 56 9' 7 > '54' @> 3<)'
2114>@ 3?' 54' ' B> 35' 3 55 543)' 56 ' 1 B' 4%' ;A 3?' 23@'
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FF' T '3 ' *0' * ' 0')* 3' Q1 *' '345' 25' 255' CC: 'FN
H' ' 5' 72 '@ 5 >8 3 @ I' #4@' %4> '23@' B >8 5' 7 1< @3)'
16' 2' 5A '5> 2 43' 4%' * @2 .' ; 5' '@4 '345' 12 ' 5' >'
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FN' 0,' 3 %' 6 ' (*' %& ' *0)' 3 'Q1 R' 6 3' 56 '57 A: '
B4 5A '56 ' 3 2 432;A9' 1435 3@ @' %4>' B > 4> 59' 43' 56 '3 ?65'
4%' 56 'B2 162A' BB >)' 4 >' "4>@' 6 7 @' 56 '?> 25 5' < 3@3 ' 3'
'8233 >' 4%' 14>> 15 3?' 56 >' %2A ' @ 2 ' 2: 3?' 4; >: @' 56 '
@ %% > 31 ' ; 57 3' '< 3?@48' 23@' 74>A@A9' 43)' C2A525 43'
2843?' '%4AA47 > '@ B 3@ 3?' 43' 56 >' 6 3 A59' 'B>4B4 '54'
56 8' '473' C28BA' @ > 3?' '35 >14 > '756' 56 8)' 5 >3 '
56 >': 7 '54' % 5 > '?> 253 ' 3' ' B > 5 2A' < 3?@48)' 23@' 3D
%4>1 ' '?>21 4 '74>@' ;9' 2' 84 5' 8 3 35' 215' 4%' 6 8 A59' 3'
72 6 3?' 56 >' % 5)' *463' C ' /T /0.E' 23' 4%% 1 '4%' 143@ 1 3 43'
76 16' ' C64>5 '56 8' 54' 8 525' 3' 56 >' ? 3 >2A' 143@ 15' 54D
72>@' 216' 456 >' 3-' 6.* +
'T' 3 ')% %=' 3' 6> 5-' < 3?@48 ' ' 255' CC' F/
F0' T' 3 '8&0)' * ' 3 ' 0&('@>1 a' '345' 25' 255' CC' F0)

TTT' %'. ((,'4 0 . *% =' 5' 72 '56 ':23 59' 4%' 8239' B> 31 '
3' 564 '5 8 ' 54' 2%% 15' 56 ' 5 5A ' 4%' >? 5 ' 4>' & 3 %2154>'
%* &$ +
' T *' ' *0)'/*$' '3' 3 ' %' 3+' 2< ' M -(' !
29)' %>48' ' (' '647'%2>')' 764' 28' 94 >' "4>@' 23@' 2 D
5 >)' 28' %>48' 2 8 3?' 54' 9 A%' 239' 74>A@A9' B47 >' 4>' ?> 253)'
23@' 5625' ' : 3' ; 62: ' 9 A%' 2' 94 >' 3% > 4 >' 3' 56 ' 4%% 1 '
4%' 143@ 1 3 43' 23@' >: 1 ' '*463' C 'N' 23@' /N E" 2>3'
9)' 56 > %4>)' 3' 8 525 43' 4%')' 54' 2 5' 43 '23456 >)' 23@' 143@ D
1 3@' 54' 43 '23456 >' 7 56' 2AA' 6 8 A59)' 8 <3)' 23@' 162> 59 '
%+' ' (%8
FL' ' %' 3 /' R' &9' > 12AA 3?' 54' 56 >' 8 3@' 56 ' 5> 2A '
56 9' 62@' ?43 '56>4 ?6' 7 56' 8)' 23@' ; 9' B4 35 3?' 4 5' 54' 56 8'
56 >' > 72>@)' : >' FJ)' * '@ ?3 ' % >56 >' 54' 16 1<' 56 >' :2 3'
28; 543)' 23@' 56 >' %43@3 '%4>' 74>A@A9' 2@:2352? '23@' 6434 > '
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&0' /' - &*0 ' 3' 9' 5> 2A ' 23@' %% > 3? ' -
5 00# &9' 56 ' B4 5A '1435 3 3?' 7 56' 8' 3' '5 8 B525 43 '
2>' 3@4 ;5 @A9' 8 235' 56 ' : >2A' 3 5231 '4%' 56 >' % @ A 59.'
56 >' 2@6 > 3?' 5 2@%2 5A9' 54' 8)' 3457 56 523@ 3?' @ %% 1 A5 '23@'
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23@' 7 AA 3?A9' 3@ >?4 3?' 56 ' 28 'B2 3% A' A2;4 >)' 56 ' 28 'B4D
: >59' 23@' 62>@' %2>)' 56 ' 28 ' 8 2A 1 '23@' B > 1 543)' 56 ' 28 '
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543' #4@' ?2: ' 54' * ' 2' 328 ' 2;4: ' : >9' 328 .' 4' 5625'
343' 14 A@' 2BB>4216' 54' =)' @ ?> ' 4%' C 525 43' & 5)' 2' '
C2A5 @' 56 ' 43' %4>' ':4A5 8 52>9' 6 8 A 25 43' 23@' %% > 3?)' 4

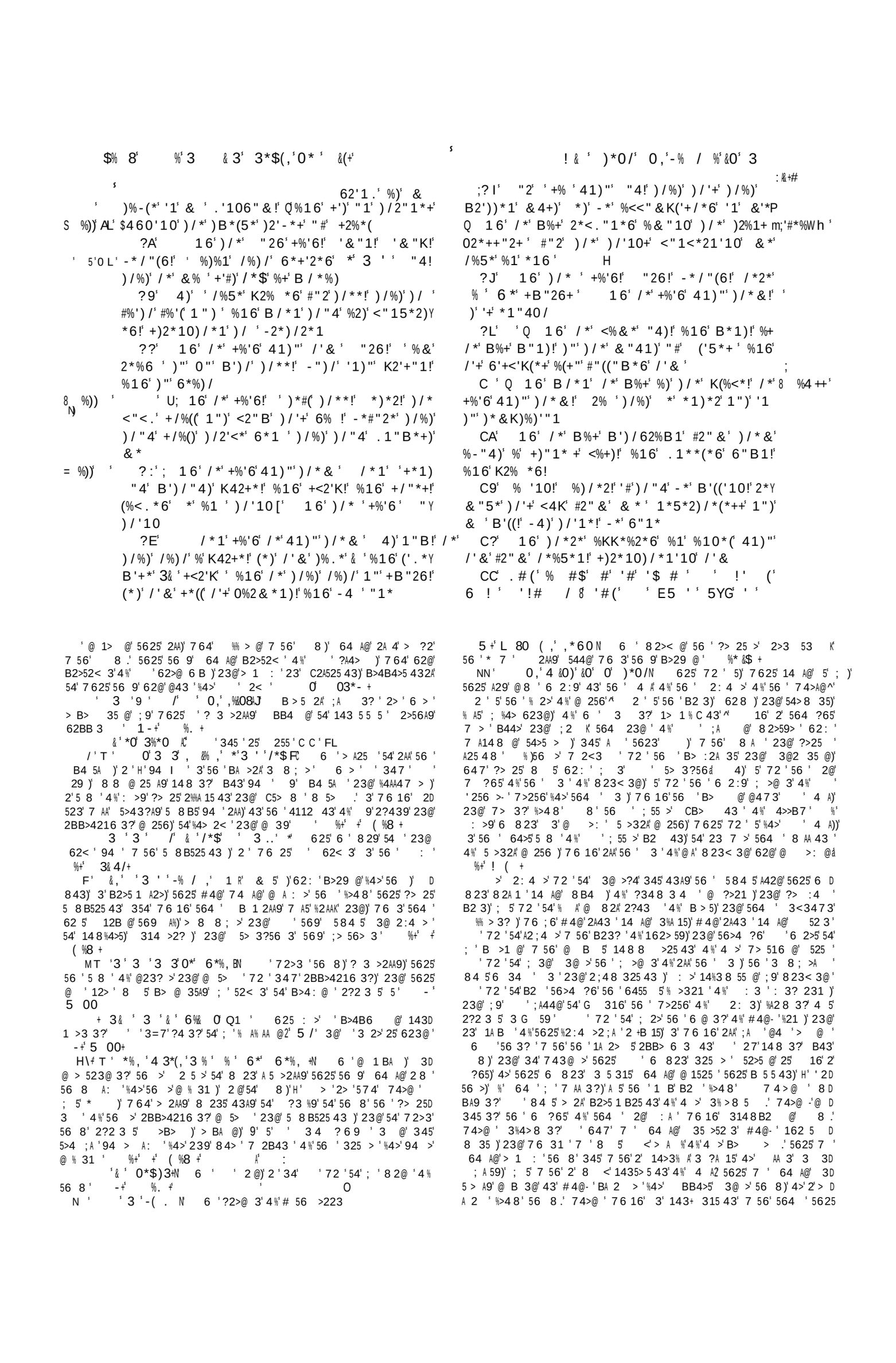
Painted by Coreggio.

CHRIST'S AGONY IN THE GARDEN.

Luke C.22.V.41.

Engraved by G.Cooke.

London Published by the Society for promoting Christian Knowledge March 1.1816.



Painted by Annibal Carracci.

THE WOMEN FROM GALILEE WEEPING OVER THE BODY OF CHRIST.

Luke C. 23. v. 55.

Engraved by Geo.ᵉ Cooke.

London: Published by the Society for promoting Christian Knowledge, Sept.ʳ 1815.

Painted by Titian. *Engraved by R.t Sands.*

JESUS WITH THE TWO DISCIPLES AT EMMAUS.

Luke C. 24. v. 30.

London, Published by the Society for promoting Christian Knowledge, Sep.r 1816.

(*' 3 ' -* (+ ' , ! ' . 0, 3'&0 *'3 T 0+

334 CC' 16' /*' +%'6' 41)"')/*&!' /*+*' % ')/*' B"26+!'B/'</' ' +K%.*' 41)"' "4!' B/'(*' ' B%+' *)' B')/' "4!')/%) %((')/'10+' &4+)' /*' #4(#'((*6!' B/'</' B*2*' B2'))*1' '1')/*' (%B' "#' "+*+!' %16' &0')/*' K2"K/*)+!' %16' &0')/*' K+%(&+!' <"1<*21'10' &* C:' /*1' "K*1*6!' /*')/*'2' 416*2+)%16Y '10!')/%)')/* ' &'0/)' 416*2+)%16')/*' +<2'KY)42*+! CE' 16' +%'6' 41)"')/*& ' /4+' ')' '+' B2')Y)*1!' %16')/4+' ')' -*/"5*6' /2'+)')"' +4##*2!' %16')"' 2'+*' #2"&')/*' 6*%6')/*')/'26' 6% CI' 16')/%)' 2*K*1)%1<*' %16'2*&'++'"1' ";# +'1+' +/"4(6'-*' K2*%</*6' '1' /'+' 1%&*' %&"10' %((' 1%)'"1+!' -*0'11'10' %)' 3*24+%(*& CJ' 16' *' %2*' B')1*++*+' "#')/*+*')/'10+ ' A' ' 16!' -*/"(6!' ' +*16')/*' K2"&'+* "#' & ' %)/*2' 4K"1' "4' -4)')%22 ' *' '1';'3"'&'+')/*' <') ' "#' 3*24+%(*&!')&)'(*' /*' *164*6' P' ' B')/'K"B*2'#2"&' "1'/'0/ : ' '#' 16' /*' (*6')/*&' "4)' %+' #%2' %+')"' *)/%1 !' %16' /*' ('#)*6' 4K' /'+' /%K6+!' %16' -(*++*6')/*& :A' F 16')'<%&*')"' K%++!' B/'(*' /*' -(*++' 7 %2.'<' *6')/*&!' /*' B%+' K%2)*6' #2"&')/*&!' %16' P<)$ ' %' <%22'*6' 4K' '1)"' /*%5*1 :9' 16')/* ' B"2+/'KK*6' /'&!' %16' 2*Y)421*6')"' 3*24+%(*&'B')/' 02*%)'$" :?' 16' B*2*' <"1)'14%((' '1')/*')*&K(*!' K2%'+'10' %16' -(*++'10' "6 ' & *1

NO' X 0' *- 0 ,' 3 ' 3 &%' $0, % 0,&0)'N' &9' 2' B 1 2A' 4B >2D 5 43' 4%' ' B > 5 ' ' ?2: '5623' 3@ > 5 @ 3?' 4%'56 ' 1> B5 >)' B 1 2AA9' 3' 564 ' 56 3? ' 7 6 16' 1431 >3 @' 56 ' 26 ' %+' ! *0,+ ' 0,' 3 ' % - 0 0* ' 0,' % & &*0' * ' &0 ' Q1 =' 625' ; 9' 56 ' 3 2>5 ' 7 2 ' 54' ; ' 52;A 6 @' 2' 3 7' 23@' ?>21 4 ' 14: 3235' 4%'> B= 523 ' 23@' % C>? : 3 ' 4%' 3)' 7 6 16' 64 A@' ; ' B> 216 @' 3' ' 328)' % > 5' 54' 56 ' * 7)' 23@' 2%5 >7 2>@' 54' 56 ' 5 5)' 3' 2AA' 56 ' 325 43 ' 4%'56 ' 7 4>A@ ' %' +' (%3 + +F(0,' %%/' / ' &0' 3 '.& /' @ R' 435 3 ' 3' * > 2A 8' 5 AA' 9 ' > 1 : ' 56 ' BA 35 % A' 23@' 8 >21 5A4 ' %% 43' 4%' 56 ' 4A9' B > 5)' 7 6 16' ' 7 AA' 3@' 94)' 2114>@ 3?' 54' 9' ' 256 >- ' B>4 8)' *4 A' ' FL)' 3' 4>@ >'54' G 2A %9' 94 ' 7 56' ?> 25' 23@' C5>24>@ 32>9' ? %5 ' %4>' 4' ?> 25' 23' 3@ >52< 3?') = 0/' T ' . %%& ,' $-' &0 *' 3 ' 0&N 6 ' 72 ' 56 ' 2 1 3 43' 4%' 4 >' 2: 4 >' : ;A9' B >%4>8 @' 3' 56 ' B> 31 ' 23@ ?65' 4%' 56 ' B4 5A)' %17 56 ' 143% > 8 25 43' 4%' 56 ' > 2A 59' 23@' 1 >52 359' 4%' 5625' : 35 ' 6 9' @ @' 345' 215 2AA9' ' 8' 7 6 3' ' >4 ' %>48' 56 ' @ 2@)' ; 12 ' 23' 9 7 53 ' 72 ' 345' 3 1 2>9' %4>' 56 ' 215' 4%' 56 ' > >> 15 43K' 5' 72 ' %% 1 35' 5625' 6> 5' 6 7 @' 8 A%' 54' 56 K"+)(*+' %('54' %#)*2' '+' K%++'"1' ' #"2' B('%)*5*2' B%+' % K2"'"# "# '+' ('#*' %#)*2' 6*%)/!' B%+' % 6*&"1+)2%)'"1' "# '+' 2*+422*<)'"1' 4)' +'1<*')/*' K"+)(*+' B*2*' 1")')'" +**' '&' %<)4%(('%-'6'10' '1' /*%5*1!' ')' B%+' 1*<*++%2 ')/%)')/* ' 6'"4(6' -*' * *B')1*++*+' "#)/*' %<)' "#)/*' %+<*1+'"1!' %+')/* ' B*2*' 1")')'" -*' * *B')1*++*+' ("#)/*' *##*<)!! /*.1"B(*60*' "#"42' %5'"42+' %+<*1+'"1' '+' 5*2 '%5%'('10' #"2' 6'*' "1#'2&%)'"1' "#"42' /"K*+' *' '+' "42'#"2*2411*2 '1)'")/*' 2*0'"1+' "#'-/++' %16')/')/*2' B*' &%' /"K*')K' #"((" B!' %+' -*'10' "#)/*' +%&*' /4&%1' 1%)42*' B')/' B/'</' *' %+<*16*6!' &*&-*2+' "#)/*' +%&*' -"6 !' -2%1</*+' "#)/*' +%&*' 5'1*' * /%+'0T '*')/')/*2 ;-*#"2*' 4+' 4!')/*' #'2+)#24')+' !"#)/"+*')/%)' #"((" B!' %16' B*' /"K*')'" #"((" B' '&'%+'<"&'10' (%)*')/*' +%&*' K*2#*<)'K1' $ K!' % *0+ /*2*' '+' %+K")' %)')/*')"K "#"1*' "#)/*' /#'(+' "1' &"-1)' ('5*)!' +)'((+/*B1' %+')/*' K(%<*' #2"&' B/'</' "42' #"26' %+<*16*6' /*2*' =B%+' %1<'*1)(' %(%20*' 6'42"'/' -1)' '1' /"1"42' "#)/%)' 0("2'"4+')2'4&K/!' 5 ,% ((+' 0F' 0,' 3 /' *% ,-- ,' 3& N ' 62 : ' 6 > ' 23' 3 5231 ' 4%' > A ? 4 ' 74> 6 B' B2 @' 54' c 6> 5)' 2%5 >' ' 72 ' 52< 3' 4 5' 4%' 56 ' ?65' 4%' ' @ 1 BA)' 23@' 62@' 2 1 3@ @' B' 354' 6 2: 3 ' ! -+ 5 00+

/*'#"((" B'10' /%K)*2+'#2"&')' 4.*%2* %$K"'1)*6'%+' 2"K*2' *++"1+!' "2'%+' "+K*(+!' "1' 416% +'%3'6 "(6% +

: >' FM= L) T ' 0W T L) & ' V' +V+F ' V' +HV.+ ' V' ..V % T ' N/T 0F) ' V' 56V F. P T ' T) , ' T ' NT /0)] ' 0/T 0M) V' +V+ V' 5V5+ V' :+FV.M V' +' ++ V' +6V.F

6 ' 33 31 25 43)' ' ' #4 B A' 5' *463' &2B5 5)' ' ' * 554 25 : 59' 4%' 6> 5)' ' ' 4>3 3? >1 81 43' 4%' 6> 5)' ' #4 B A' 6 ' > % 125 43)' ' ' ' 554 / 5 3@29' 2%5 >' B B6239)' 554' B B6239)' ')' ' ' ' 4>3 3?' M56' 3@29' 2%5 >' > 3 59)' #4 B A PN56' 3@29' 2%5 >' > 3 59)' 554 M56' 3@29' 2%5 >' > 3 59)' 554 C2? 82' 3@29)' ' ' 554' # 3B47@ >' > 2 43)' ' ' 554 5' " < ' 56 ' :23? A 5)' 554' / 56' 3@29' 2%5 >' > 3 59)' 554 @' 3@29' 3' " 35)' ' 554' 56' 3@29' 2%5 >' > 3 59)' 554 F@' 3@29' 2%5 >' > 3 59)' 554

3 &, ' 5*2' AO A ! ?6' 416% K#)*2' $ '1') ! "+K*(9 ' : - /#' 9 ' 9 ;1' J56' 3@29' =%5 >' > 3 59)' 554 T =' , ' T ' T /)' / 5 3@29' 2%5 >' - > 3 59)' 554 ' , ' T ' T)' /N56' 3@29' 2%5 ' > 3 59)' % 554)' T ' , T ' J T /N)' / /56' 3@29' 2%5 >' > 3 59)' 554 T T' , ' T /T N)' e 3G 2? 82' 3@29)' 554 T ' ' T N/T /W' / 56' 3@29' 2%5 >' > 3 59)' 554 T > ' "' T ' F0 T)' F@' 3@29') ' @: 35)' 554 T T ' T ' T =)' @3 @29' ; %4> ' 2 5 >)' 554 ' ' T ' FN T)' 5)' &2>564A4 8 7)' ' ' 554 ' T ' /T)' 6 > @29' ; %4> ' 2 5 >)' 554 ' T ' 0 T 0M)' 2 5 >' : 3)' ') ' ' ' 4>3 3? T T ' , ' /T /F)' @29' 3' 2 5 > 7 <)' 554 T ' , ' T ' / T 0)' 43@29' 3' 2 5 > 7 <)') #4 B A) , ' T ' M T NL)' @29' 3' 2 5 > 7 <)' 554 T T' , ' T ' NN T 0)' 1 3 43 29)' ' ' ' 4>3 3?

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5' 62 ' ; 3' > 8 2>< @)' 5625' 5 ' *463' 62 ' > 14>@ @' 8 4> ' 3 5231 ' 4%' 56 ' 25% 8 B5 ' 4%' 56 ' * 7 ' 2?2 3 5' 4 >' 2: 4 >- ' A % ' 5623' 239' 456 >' :23? A 5.' 23@' 5625' 56 ' : 35)' 8 35 43 @' 3' 56 ' #4 B A' 43A9)' 544<' BA21 ' 16 %A9' 3' 56 ' 2>A9' B2>5' 4%' 6> 5- ' 8 3 5>9 ' 5' *463' 62 ' CB> A9' 8 35 43 @' 56> ' B2 4: >)' 162B ' ' / .' : ' N.' C ' 00K' 23@' 3' 23456 >' BA21 ' 6 ' 29)' 9' %5 >' 56 ' 56 > ' 72 ' 2' % 2 5' 4%' 5A ' * 7)\' 162B ' : ' / ' 48 ' 2 564> ' 56 3<' 5625' 56 ' % 2 5' 72 ' 2A 4' 2' B2 4: >.' ; 5)' 2 ' 3' 5A ' 456 >' 3 5231 ' 5' *463' 5 AA ')' 5625' 56 ' % 2 5 ' 7 > ' B2 4: >)' 23@' 3' 56 ' @4 ' 345)' 56 ' 3% > 31 ' 8 '54' ;)' 5625' 56 ' 72 ' 48 ' 456 >' % 2 5

5' *463- ' 59A ' 2>? ' 2' ?> 25' 7235' 4%' 564 ' 2@ : 2352? ' 7 6 16' > A5' %>48 ' 2' A 2>3 @' @ 125 43.' ; 5' 56 ' @ % 15' ' 2 8 BA9' 148 B 3 25 @' ; 9' 56 ' 3 C2 8 BA @' 8 BA 1 59' 7 56' 7 6 16' 6 ' CB> ' 56 ' ; A 8 5' 5> 56 i)' 23@' ; 9' 56 ' 2A 15 43)' U 2A)' 23@' : 3 >25 43' %4>' 6 ' : 3 ' 2 5 >)' 4' 143 B 1 4 ' 3' : >9>' B2? ' 4%' 6 ' #4 B A' -+' * (&0 +

?2 3 5' 56 ' 6 > 9' 4%' > 356)' 7 64' 143 @ > @' 4 >' 2: 4 >' 54' ; ' 34' 8 4> ' 5623' 2' > 2A' 8 23)' 56 ' 43' 4%' * 4 B6' 23@' 2>9)' 23@' B>4@ 1 @' 3' 56 ' 148 843' 8 4@ ' 4%' ? 3 >25 43)' @ @' 56 ' 2? @' 23@' : 3 >2 ; A ' 5' *463' B 1 A 2>A9' 7 > 5 ' 6 ' #4 B A' H' 5' *463)' 56 ' @ 1 BA ' 4% ' 4 >' "4>@)\' 2 ' > 3 ' 5 AA ')' H ' 72 ' 7 AA 3?)' ; 9' 56 ' B ; A 125 43' 4%' 6 ' #4 B A)' 54' 52< ' 2729' 56 ' >>4 >' 76 16' > 356 ' 62@' @ 8 325 @' 2 843? 5' 8 3 \' ' 2114>@ 3?A9' ' 43 ' % 25 > ' 3' 56 ' 148 BA C 43' 4%' 3%235' 6> 5 23 59)' 43 ' 1 >1 8 5231 ' 3' 56 ' 6 54>9' 4%' 4 8' > 3?' > A ? 43)' 7 6 16' 62 ' ; 3' A 55A ' 345 1 @)' ; 5' ' : >9' 5> < 3?' 3' 5 A%)' 23@' > A5 ' 35 > A9' %>4 8 ' 5A ' 6 ' : 3 >2 ; A ' ' 4 3@ >' 4%' 4 >' %2 56)' 23@' 56 ' @ ?3 % @' B> 216 > ' 4%' 5' 54' 56 ' 7 4>A@)' 2 ' A25 ' 2 ' 5' *463' 6 8 A%)' @4' 3 : >' B>4B4 ' 56 ' @415> 3 ' 4%' 6> 5- ' @ : 3 59' 2 ' 2' 0 ' 2>5 1A ' 4%' ; A %.' 2 ' 43 ' 5625' 62@' ; 3' 6 56 >54' 3<347 3' 54' 56 ' 6 >16' * ' #4@)' 23@' 5625' 72 ' 347' ; >4 ?65' 54' A ?65' ; 9' 5AC ' #4 B A ' 6 9' @4' 345' A29' 5' ; %4> ' 56 >' 6 2> > ' 4>' 56 >' > 2@ > ' 3' %4> 8 2A' B -4+C4 5 43 ' 6 9' ; > 3?' 5' 345' %4> 7 2>@' 54' 56 >' 3@ > 523@ 3? ' 7 56' 2' 4A 8 3 59' 4%' 35>4@ 15 43)' 5625' 64 A@' 6 7' 56 >' 47 3' 3 ' 4%' 5 ' >B> 3?' 325 >)' 23@' B> B2> ' 56 ' 8 3@ ' 4%' 56 >' B 4BA ' %4>' 56)' % > 5' > 1 B5 43' 4%' 5 ' 3' 56 ' 1435>2>9)' 56 9' B2 ' 8 B >1 B5 ; A9' CC54 56 ' ; + 15' 6 9' 3 3 25 ' >256 >' 5623' B>41A2 8' 5)' 6 9' B 2<' 4%' 5' 3' 16' 2' 8 233 >)' 2 ' B>4 : ' 5' 54' 62 : ' ; 3' %2 8 A 2>' 54' 56 >' 47 3' 8 3@)' 23@' 54 ' 56 ' 8 3@ ' 4%' 5 C >' 14 35>9 8 3 ' 6 3D : >' 56 9' 345 1 ' 5)' 56 9' 345 1 ' 5' 2 ' 2' @415> 3)' 7 6 16' ; 2@' 2A729 ' ; 3' B>4% @' ; 9' 56 ' 6 >16' 4%' # 4@)' 62@' 2A729 ' ; 3' ; D A : @' ; 9' 5 ' 8 8 ; >)' 23@' 347' 7235 @' 43A9' 54' ; ' 2BBA @' 54' 56 ' B > 43' 4%' * 6 ' > 82><)' 7 6 16' ' 4' 3 1 2>9' 54' 56 ' > ?65' 3@ > 523@ 3?' 4%' 56 ' 1> B5 >)' ' 2@@ 5 43 8 A9' @ 843 5>25 @' 54' ; ' 5>)' ; 9' 56 ' : @ 35' 1435>2 5' 7 6 16' 2BB 2> ' 3' 56 ' 7> 5 3?' 4%' 5 ' *463)' 148 B2> @' 7 56' 2AA' 8 ' 456 >' 7 > 5 3? ' 4%' 56 ' 7' 52 8 35)' 1431 >3 3?' 56 ' @415> 3 ' 3' 6 ' 5 8 ' 56 ' @415> 3 ' 62 : 3?' ; 3' @4 ; 5 @)' @ 3 @)' 23@' 4BB4 @' ; 9' > 356 ' 23@' ; 43)' 56 ' A2 5' 4%' 56 ' B4 5A)' 764 ' A % ' 8 '54' 62 : ' ; 3' 1435 @' %4>' 56 ' : >9' B \B4)' 5' 6 8 A%' 54' 8 35 43' 56 ' @415> 3 ' 3' 2' : >9' @ %% > 35' 8 233 >' ' 34' A43 ? >' 345 ' 5' 3' 56 ' 2 9' 23@' 5>23 35' 8 4@ ' 4%' 6 ' B> @ 1 4> .' ; 5' 2 >5 ' 5' C ' B > 8 B54>9' 5 >8)' 23@' @ 7 AA ' B4 3' 5' 3' 1 >1 8 5235 2A' A23? 2? .' 23@' 56 '544' 25' 56 ' : >9' 148 >2 31 ' 3C 35' 4%' 6 ' #4 B A.' 3' 4>@ >' 54' 8 B> ' 56 ' @415> 3 ' B4 ' 56 ' 8 3@ ' 23@' B > 5 ' 4%' 6 ' > 2@ > ' %4>' : >' %+' 3& 8 %+

')/*' -*0'11'10' B%+')/*' "26!' %16')/*' "26' B%+' B')/' "6!' %16')/*' "26' B%+' "6

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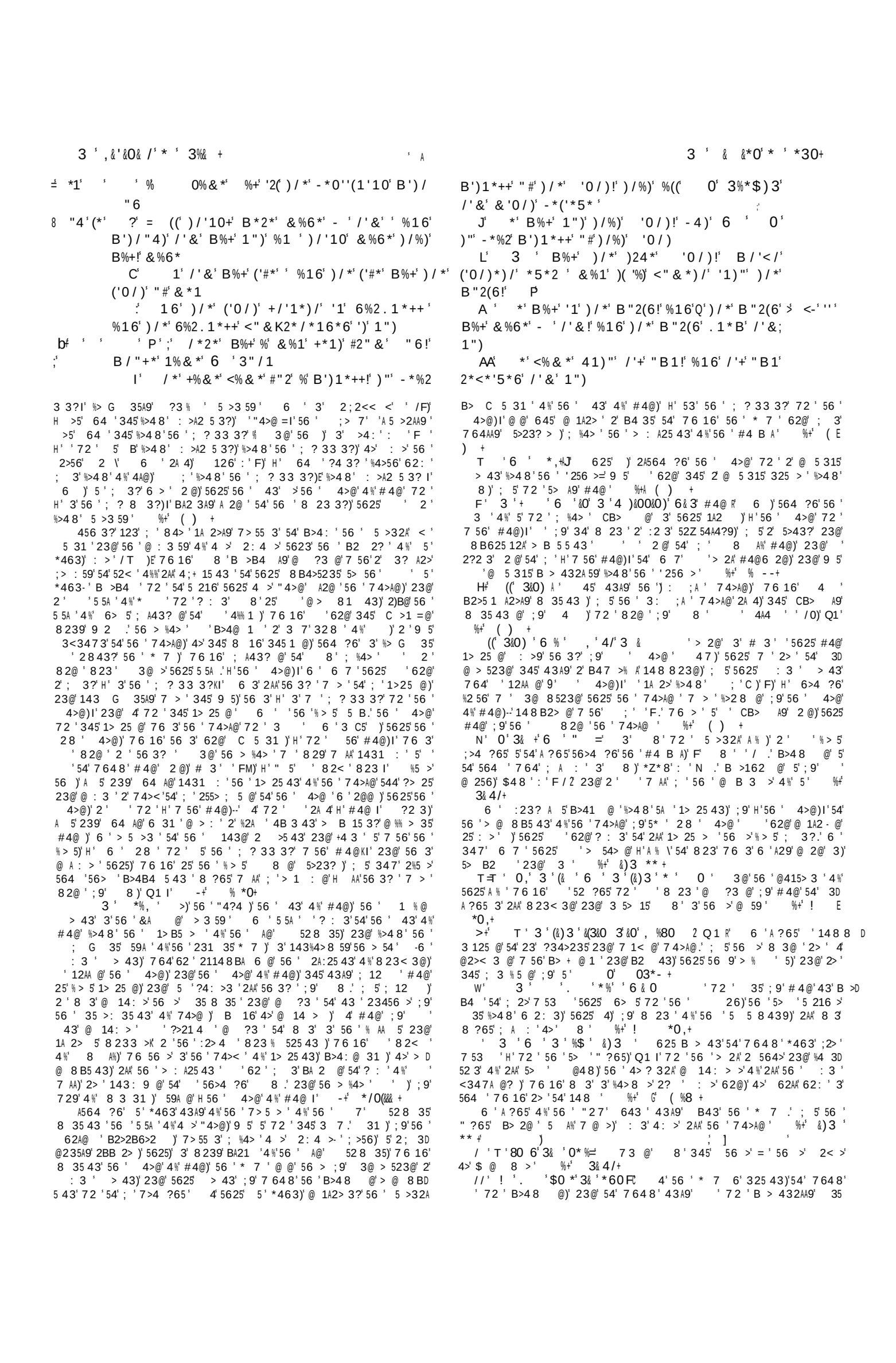
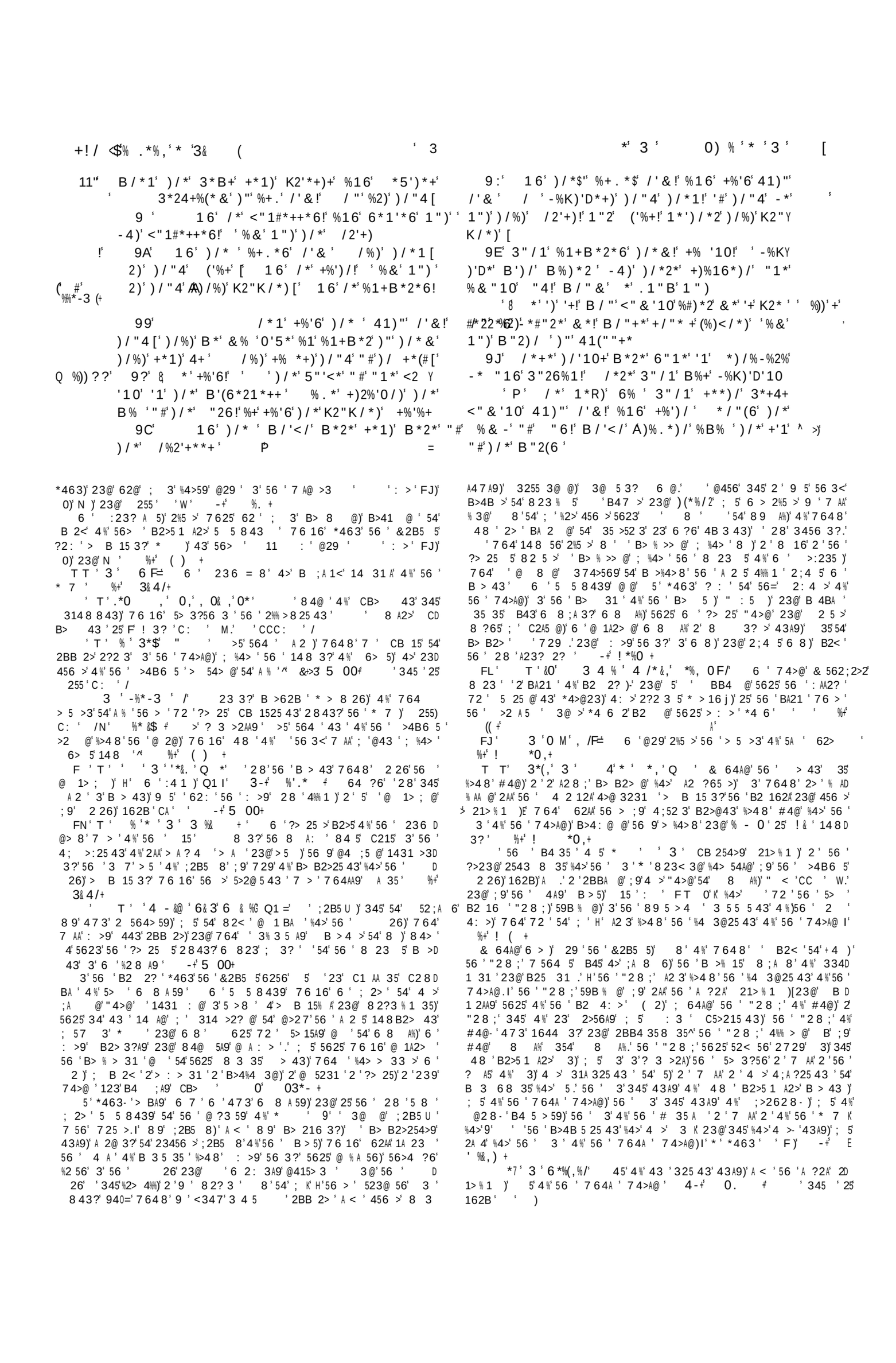
62B ' / ' : >' / ' 0' 3 ' 4)&00&0)' 6 ' 3 ' *%, ' Q1 R' 3' 56 ' ; ? 3CC 3?' 4%' 56 ' 74>A@' ; %4> ' 2AA' 5 8)' ; %4> ' 239' 56 3?' 72 ' 1> 25 @)' 56 ' 43' 4%' #4@' 62@' 2' ; 5 31)' 23@' 5625' ; 5 31 ' 7 56' 5AC ' ' 256 >' 4%' 764 8' ' 72 ' ; ?455 3' %>4 8 ' 2AA' 5 >3 59)' 23@' 72 ' 8 A%' 5 >32A' #4@)' ; > 3?' ; 9' ' 256 >' 3' ' 5 >32A' B >B4 ' @ ?3 @' 54' ; ' 5AC ' 26)' 764' 72 ' <347 3' 28 43?' 56 ' * 7 ' ; 9' 56 ' 5 5A ' 4%' 56 ' 4>@' 4%' #4@ ' %+' ! *0,+

3' 1435 8 BA25 3?' 56 ' 162>215 >' 4%' 823- ' $ @ 8 >)' 5' ' 62>@' 54' 29)' 76 56 >' 4 >' 2@8 >25 43' ; ' 84 5' C1 5 @' ; 9' 56 ' 325 C 2A' @ ?3 59' 4>' 56 ' :4A 352>9' 2 ; 2 8 35' 4%' ' B > 43 ' 4' %4> 8 ' 5D 2 ; A ' @ 2 ' 4%' 56 C)' 5' ' CB @ 35' 54' 52< ' 2' : 7 ' 4%' ; 456 .' 23@' 56 9' 2BB 2>' 54' 56 ' 584 5' 2@ : 2352? ' 3' 56 ' 4B 3 3?' 4%' 5 ' *463- ' #4 B A)' 76 > ' 6 ' 5 ' 6 8 A%' 54' B ; A 6)' % > 5)' 56 ' @ : 3 59)' 23@' 56 3' 56 ' 312>325 43' 4%' 6 ' 84 5' 2@4>2 ; A ' 23@' ; A4 : @' 2 5 >' ' 8 35 43)' 3' @ ' 4>@ >' 23@' 3' > ? A2>' ?>2@25 43)' 56 ' ?A4>9' 76 16' 56 ' 4>@' C2@' 7 56' 56 ' ' 256 >' ; %4> ' 823)' 4>' 56 ' 74>A@ ' 62' 6 ' 362 ; 5)' 62@' 2' ; 3?)' : >' / .' ' ?A4>9' 7 56' > B 15' 54' 56 ' 1> 25 >)' 56 ' 74>< ' 4%' ' 623=)' : >' L .' ' ?A4>9' 2 ' 56 ' 4A ' 564>' 4%' A % ' 23@' 8 84>52A 59)' : >' N .' ' ?A4>9)' 7 56' > D B 15' 54' 823' 3' ? 3 >2A)' 2 ' %2AA 3' 354' 2' 525 ' 4%' ?34>231 ' 23@' 3 2A 59)' : >' 0.' ' ?A4>9)' 7 56' > B 15' 54' 56 ' * 7)' 54' 76435' ' % > 5' 823 % 5 @' 8 A%)' : >' / / .' ' ?A4>9)' 7 56' > B 15' 54' 6> 523)' 54' 7648' ' ?2 : ' H' B47 >' 54' ; 148 ' 56 ' 43 ' 4%' #4@)I' : >' ? .' 3' 4>@ >' 54' %% 15' 76 16' ' 8 A%' ; 128 ' 56 ' 43' 4%' 823)' 9' 56 ' 4>@' 72 ' 82@ ' %A 6)I' : >' /N' -+' ! *%0 + 9' 3' 56 ' ; ? 33 3?-- ' 6 > ' @ 3' 56 ' 28 ' 3 ' 2 ' 25' # 3 ' / ' 4>' 56 ' :23? A 5' B>4B4 ' 54' 6 8 A%' 54' 6 7)' 5625)' ; 9' 9' 56 ' 4>@)\' ; 9' 7648' 56 ' 1> 25 43' 72 ' B >% 15 @)' 56 ' > @ 8 B5 43' 4%' 823< 3@' 72 ' 2A 4' B 7 % 15 @.' 5AC25' 56 ' 143@' > 43' 3' 56 ' 4A9' > 3 59' ; 128)' 3' 56 ' % A3 ' 4%' 5 8)' 4 >' $ @ 8 >)' 2)' 3' 5AC ' ; ? 33 3?' 4%' 5 8 ' ' 62@' ; 3' 4 >' 2< > ' % ' &) 3 ' ** +' 3' 56 ' A23? 2? ' 4%' 56 ' * 7)' 56 ' BA >2 ' H' 3' 56 ' ; ? 3





3++4+' 6'6' 1")' <" & & ')' / '& +*(#
! 41)"')/*&!' -*<%4+*' /*' .1*B' %((' B*B!
9:' 16'1**6*6'1")')/%)'%1 ' +/"4(6')*+Y
)'# '"#'&%1 '#"2' /*' .1*B' B/%)'B%+' '1' &%1!

3 B&' &
/ 3‰ ' .3 3' &.*, ‰ '3'0 . &/'* '%) & % &*0#
/N' ' &3'&0'3&', 3' D' 3')% '(*' '* ' *,'
6 %,' 3' 6%(,# /L' *0, 0 &*0' *%' $04 (& #
F' 3'4 -& '6&0 ' 0,',*. ‰O '* ' *30' .*0. %O'
&)' 3‰ +

' B%+' %' &%1' "#') /*' /%2'+**+!'
1%&*6' '<"6*&4+!' %' 24(*2' "#') /*'
3*B+
9' /*' +%&*' <%&*')"' 3*+4+' - '1'0/)!' %16'
+%'6' 41)"' /'&' %--'!' B*' .1"B') /%)')/"4

%2)' %')*%</*2' <"&*'#2"&' "6 ' #"2' /"' &%1'
<%1'6"') /*+*' &'2%<(*+') /%)') /"4' 6"*+)!' *R '
<*K)' "6' -*' B')/' /'&
?' 3*+4+' %1+B*2*6'%16'+%'6'41)"' /'&!' *Y
2'(!' 5*2'(!' '+% '41)"') /**!' R<*K)'%' &%1
-*' -"21' A%O%'1!' /*'<%11")'+**') /*' ."106"&' ^ >)'
"#' "6'
C' '<"6*&4+' +%')/'41)"' /'&' "B'<%1'
%' &%1'-*'-"21'B/*1'/*' '+'"(6'[' <%1'/*' *1Y
)*2')/*'+*<"16')'&*'1)"' /'+' &")/*2 +B"&-!'
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:' 3*+4+' %1+B*2*6' *2'(!' 5*2'(!' '+% '
41)"')/**' R<*K)'%' &%1'-*'-"21'"#'B%)*2'
%16'* ')/*' K'2')' /*' <%11")'*1)*2' '1)"')/*'
.'106"&' "#' "6

FN' T',&,'0*' .* &' 3& ('$0 *' 3 F= @' 345' 143% @ ' 3'
56 8)'2' ' 31 >'@ 1BA)'; 12 ' '<3 7'56'6 2>5'4%'2AA'
8 3' 6 ' '23'28BA'B>44%'4%'56' : 3 59'4%' 6> 5)' 31'56'
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F0' 0,'0 , ,'0*' 3 '0/' 3*$(,' /=' '3 @ @' 34' 3D
%4>8 25 43'7625'8 3'7 >)' 56 >'%>48'56 8 A: '4>'456 >)' 31'
' 8 8 @ 25 A9'<3 7'56': >9'6 2>5' 23@'564 ?65'4%'2AA' 8 3'
%+' ( ) +
62B' AA)' : >'/' 3 %'6 'T' '%$(%'*' '3' 00 2J 6 >'
72'25'* > 2A 8'9'2'> A >'4%'56' * 7' 8 23 3?)'2'8 8 ; >'4%'
56'?> 25'14 31 A)'56' 236 @> 8)'" < ': 'N/.' C: '/L.' *463
: ' 0 ' $ *4 +
F' T'. ' *' $'4/'0&)3 /' '; A : @' 3'B> :25)'; 5'@ @'
345'12>'54'4%% 3@'56'456 >' 2> '23@'> A > .' 43'76 16'21D
14 35'6 '128 '; 9'3 ?65'54'143% >'B> :25 A9'7 56'*)' 0'
03*- # ': &+
3'56 '; ? 38 3?'4%'56 '162B5 >'7 '62: '56 '89 5 >9'4%'56 '
4A9' > 3 59'B> 35 @'54'4 >'1435>23BA25 43' 3'56 ': >)' CD
B> '23@'@% 5 315'8 35 43' '82@'4%'#4@'56 ''256 >)'; 9'764 '
B47 >' 23@' 8 8 @ 25 'B> 31'7 56'*)'56'8 >21A ' 7 >'
7>4 ?65' 6 >' '2A 4'8 35 43)'4%'56' 43)': >'/)'764'@ '
1A23 ' 8 A%'54'62: '148 '@473'%>48'6 2: 3)'23@' : 3'54'; '
+3'6 2: 3' 25'56 ' 3 5235'4%' '143: > 3?'7 56' 14@ 8 '43'
2>56.' 23@'4%'5625' 4A9' B > 5)': >'>'D'764 'B>4A %1<'4B >25 43'
B43'56 '725 >'4%'; 2B5 8' %% 15'56 '3 7'23@' B > 5 2A)'2'4%'
4A@' 5'@ @'56 '325 >2A)'1> 25 43)'76 3'84: 3?'43'56 '%21'4%'56 '
9 5' 3%4>8 @' @ B.' 23@'764 ' 2315 %9 3?' ?>21 ': >'W)' LE'
215'B47 >% AA9=' 564 ?6' 4%5 3' 3@ 1 >3 ;A9)' 3' 1623? 3?' 56 '
8 3@'4%'8 3' 0' 03*- +
TT '6'80*6' 3 '3*$' %'Q1 ' '56 '; ? 3 '7 56'23' 3? '
3 4 '21<347A @?8 35)'5625'56 '8 >21A '76 16'* '7>4 ?65'
7 >'2' %% 1 35' :@ 31'54'6 8'4%' ' :3'2 564> 59'23@'
8 43' 0' 03*- # &9' 3?'56'5 >8'H'7)\' 14@ 8 '
8 '54' B 2<'345' 43A9'%4>'6 8 A%5'; 5'%4>' 48'456 >'764'
2?> @'7 56'6 8' 3'4B 3 43' $ *4% +
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2'B > 43'764'72' 8 3 35'%4>'>23<)'A 2>3 3?)'23@' 3%A 31' 3'
56'* 7 6' 525)'21<347A @? @)'345' 43A9'5625'* '7>4 ?65'
8 >21A)'; 5'5625' 3C>21A '7 >'2' B>44%'4%'2' : 3'8 43'
6 31' ' 5'56 3'625' 48'2843? 54 > A: '62: '1435 3@ @)'
5625'* '7>4 ?65'34'8 >21A .' 23@'5625)' %' '62@'7>4 ?65'
8)'56 9'74 A@'345'62: '; 3'2' B>44%'5625' '72' 35'%>48'
#4@'^ - ' *0+
H# $' 0 6 % ,' 0,' &,' Q1)R' 3'56 ' 35 > 5 3?'143: >D
25 43'7 56' 14@ 8)'4 >'"4>@'148 8 3 125 '54'6 8'56 '% 3D
@2 8 352A'@415> 3 '4%'56 ' 6> 5 23'%2 56 ' /5)' 6 '3 1 59'4%'
3 7'; >56'4>'> ? 3 >25 43'; 9'; 2B5 8'23@'56 ' 4A9' B > 5'54' 2AD
:25 43)' : >'HT //' F3@)' 6 ' > @ 8 B5 43'4%' 823< 3@' ; 9'56 '
@ 256'4%' 6> 5)'56>4 ?6'%2 56.' 4%'76 16'@ 256'56 '; >2 3' >D
B 35'72 '2'59B)' : >'/FT /0' >@)' 6 '4> ? 32A'12 ' 4%'56 '
84@'4%'> @ 8B5 43)'56 'A4: '4%'#4@)' : >'/MT /L' %+' ! (+
*)'4; >: 3?'5625' 14@ 8 ' 2@' 3456 3?' 4%'56 ' C1 AD

A 319' 23@' B47 >'4%' '@415 3)'54' 1623? '56 '6 2>5 '23@'>D
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143%>8 @)' 29'54'6 8' 6 '21<347A @?8 35'4%'56 3 '7 AA' 345'
; ' %% 1 35'54'> 3@ >'56 '2' 8 8 ; >'4%' 9'< 3?@48'K C1 B5'2'
8 23'; '; 4>3'2?2 3)'5625')'> 3 7 @' 3' > '8 3@)'7 AA)'23@'2%% 1D
5 43'; 9'56 '4B >25 43'4%'56 ' 4A9' B > 5)'23@' 4'; 148 '2'3 7'
1> 25 >)'F' 4>' : '/W)'6 '123345' 3+49'56 '; A 3? '4%'56 '< 3?D
@4 8'4%'#4@' %+' 3&4/+
>=' T' M. -' ' 0'4'4*%O'*'6 % 0,'* '3' -&%& 'Q1 R' :'
2: 4 >' 14>> 15'6 '8 2BB> 6 3 43)'; 9'21G 2 35 3?'6 8)'5625'
56 '; >56)'4%'76 16' ' B2<)'72 ' %% 15 @'; 9'56 '72 6 3?'4%'725 >'
B43'56 '4 572>@' 823)'23@'56 ' 2315 %125 43' 4%'56 ' 4A9' #64 5'
3'56 ' 372>@' 823 ' '4>' : >'ME' 2AA'; >56 '23 7 >'54'56 'B> 31 D
BA '5625'12 '56 8.' 2'56 > %4>'12>32A'; >56 'B>41 @'%>48'56 '
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B> 31 BA ' 0' 03*- +
&2B5 8)'4 >'"4>@'5 AA '6 8' 3'56 '23 7 >)' '56 '4>@ 3231'
4%'#4@)'; 9'76 16'2AA' 823< 3@'2>'54'; ' 2@8 55 @' 354'56 '< 3?D
@48'4%'#4@)'4>'56 '#4 B A' 525 'K 2' ; 2B5 8'76 16' 0'54'; '@ 5 3D
? 6 @'%>48' 62> 2 12A'23@'A ?2A'2; A 5 43 '2' 56 ': 2A '4%' 5'345'
143 5 3?)'A < '56 >)' 4'8 16' 3'56 '4 572>@'>5)'2' 3'5A+B'25D
5 3@235'23@' 372>@' %% 1219'4%'56 ' B > 5' %+ &)3 '** +
'4%'6 % 0,'* '3' -&%& B' 625'4 >'"4>@'6 >' B 2< '45'
; 2B5 8 ='> ? 3 >25 43)'56 '764A' 6>) 5 23'16 >16'%>48' 5' 2>D
A 5'5 8 '62' 3:2> 2; A9'52 ?65' %+' 3& 4/+
625'7 '8 29'; '56 '; 48'4%'56 ' -&%& '7 '8 5'4 '4*%O'(*'
4%'725 >.' 345'2' %'56 > 72'239' : >5 ' 3' 725 >)'76 > ; 9' 5'
14 A@'> ? 3 >25 ')'; 5'; 12 '56 ' '56 '>5 '4>' 4>@ 3231 '2BD
B4 35 @'; 9' 6> 5)'76 > 3' '> ? 3 >25 ' '; 9' ' 4A9' B > 5K'
4 >' > ? 3 >25 43' '764AA9'56 '215'4%'56 ' B > 5'4%' 6> 5' & 5'
56 > '8 5'; ' 48 56 3?'@43 '43' 4 5' B2>5' 3' 4>@ >'54' 5)'23@'
48 56 3?'5625' ' 3 55 5 @'23@'4>@2 3 @' ; 9' : 3 '2 564> 59)'
76 16' 3'56 ' /Z% 528 35'72 '1>1 81 43.' 3'56 '3 7)'; 2BD
5 8'4>'72 6 3?'7 56'725 >.'56 ' 2 5'5625'14 A@' ; ' 3: 35 @)'
23@'56 '84 5'B>4B >'54' ?3 %9' '1A 23 3?'23@'> ? 3 >25 3?' '
; 9' ' 4A9' B > 5' 3@)' 31'56 ' ' 3 55 5 @'; 9' 6> 5' 8D
A%)'2' 7 '123345'; ' ; 48'4%'725 >'7 564 5'56 ' B > 5)' 4'3 56 >'
123'7)' 3'23'4>@ 32>9'729)'; ' ; 4>3'4%'56 ' B > 5'7 564 5'725 >)'
@ 4>'2BBA @' 3'4; @ 31'23@'143%4>8 59'54' ' 3 55 543'
6> 5'62'+4 3 @'56 8'54? 56 >)'23@' 5' '345' 3'4 >'B47 >'54' D
B2>25'56 8' '5625'74 A@'; ' ; 4>3'4%'56G' B > 5'8 5' ; ' ; 43A'
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56 '3 7'1> 25 43)'56 '; A 3? '23@' B > 5 2A 5 '4%'56 '< 3?@48 '
3@'56 ' '56 ' CB> 43'76 16'4 >'"4>@' 8 A%' '54' 14D
@ 8)'H' C1 B5'2'823'; ' ; 4>3'4%'725 >'23@'4%'56 ' B > 5 5' '
12AA @'2A 4'; 9' 5' 2 A)'56 'A2: >'4%'> ? 3 >25 43' '4>'347'7 '
; ? 3'54'; '> 1<43 @' 3'2'3 7' 2114 35.' #4@' '; 148 '4 5' '2D
56 >)' 6> 5'4 >' A@ >'; >456 >)'56 ' B > 5'56 ' 2>3 5'4%'4 >' 36 D
>5231)'56 ' 6 >16'4 >' 8456 >)'4 >' %44@' '56 '; 4@9'23@'; A44@'
4%'4 >"4>@)'%2 56' '4 >'A 2>3 3?)'> A ? 43'4 >' 8 BA498 35)'4 >'
764A' A %' ' B > 5 2A)'6 2: 3'56 '4; + 15'4%'4 >'64B)'23@'56G'
8 ?659'B> U '4%'4 >'6 ?6'12AA 3? ' - '/(*%

' " AJ P *)/%) -*('*5*)/ "1 /'&' '+ 1")
+" <"16*&1*6 -4) /*)/%) -*('*5*)/ 1") '+
<"16*&1*6 %(2*%6 ! -*<%4+** /* /%)/ 1") '
-*('*5*6'1')/* 1%&*" #)/*" 1(-*0"))*1'
"1" # "6
<'%K 16')/'+'+)/*<"16*&1%)'"1! P)/%)
-;0/)'+<"&*'1)") /*B"2(6! %16'&*1'("5*6'
6%2.1*++' 2%)/*2')/%1' 0/)P -*<%4+*!)/*'2'
6**6+ B*2** *5'(
9 "2 *5*2 "1*) /%) 6"*)/ *5'(4D%)"*)//'& %--'! /*)/%) B%+ B')/)/**!
;)/* ('0/)! 1*')/*2 <"&*)/)"*)/*('0/)! (*+)
> /'+ 6**6+ +/"4(6 -** 2*K2"5*6
,&. % , 0$ 6"*)/)24)/ <"&)/)"
)/*'(0/)!)/%) /'+ 6**6+ &% -** &%6** &%
1'#*+)!)/%)') /* %2*' B2"40/)'1' "6
99' P #)*2')/*+*')/'10+'<%&*'3*+4+'%16'
/'+ 6'+<'K(*+'1)" ')/*'(%16'"#'346*% %16
! ")/*2** /*)%22'*6'B')/)/*&! F%16'-%K)'D*6
9?' P'; 16' 3"/1' %(+"' B%+ -%K)'610' '1

!3 1"1' 1*%K)"' %('&! -*<%4+**)/*2*' B%+
P&4</' B%)*2')/*2*' %16')/* <%&*! %16' P' P' U
B*2** -%K)'D*6
9C "2' 3"/1' B%+ 1")' *)' <%+)' '1)"' K2' '
+"1
9 : P' /*1')/*2*' %2"+*' %' V4*+)'"1' -*'
)B**1' * * ' 3"/1 + 6'+<'K(*+' %16')/*'
3*B+%-"4)' K42'# '10
9E 16')/* <%&*' 41)"' 3"/1! %16'+%'6'
-* "16'3"26%1! P)"' B/"&')/"4' -%2*+)' B') <'!!K
1*++! -*/"(6!)/*' +%&*' -%K)'D*)/! %16' %((P
B*1'<"&*')"' /'&
9 I' 3"/1' %1+B*)*6' %16' +%'6! F &%1> *- +! !
! <%1' '2*<*'5*' 1")/'10! *R<*K)' ')' -*' 0'5*1' ' 2! --
' /'&'#2"&'/*%5*1
' ;' 9J' *" 42+*(5*+' -*%2' &*' B')1*++!)/%)
' '+%'6! G '%&'1")')/*' ('2'+)! -4)')/%)' '%&' <HMKA'
+*1)' -*#"2** /'&

' ! 3 '4 (& ' 3Q1 R' '5625' ; A : 56' 43' 5A ' 43' 4%'
#41)' 8 ;>21 3?' '@415> 3 '23@'4; 9 3?' '148823@)' 62AA'
1 >52 3A9' 12B '56 ' B 3 68 35' 4%' 3)' 23@' 4;52 3' 56 ' > 72>@'
4%' : >A2 5 3?' A % .' ; 5)' 43' 56 ' 1435>2>9)' 764 4 : >' 7 A% AA9'
23@'% 32AA9' > + 15 '56 ' ?> 25' 2A:2543)'2; 3?'56 ' 8 >19'4%'#4@)'
23@' @ B 3?' ' B>4%% > @' 8 23 ' 4%' ?>21)' 7 AA' 31 >' 143@ 8D
325 43' 7 564 5' > 8 @9' 23@' 7 564 5' C1)' ; 12 '6 '4; 5 325 D
A9' 7 56 523@ '56 ' ?> 25 5' : @ 31 ' 4%' 5> 56)' 23@' 56 ' 84 5' ?52 '
1 = '5 >8 '4%' 2A:2543 ' %+' G' (%&. +
B ' 3,' 3& '& ' 3 '.*0, 0 &*0' X.F= 6 ' 2??>2:2543' 4%'56 '
1> 8)' 23@' 56 ' + 51 ' 4%'56 ' B 3 68 35)' 4%' 564 ' 764' ; A : '
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@ 31)' 23@' > % ' 56 >' 473' 823 % 5' 2@:2352?)' %>48' 5625' B> D
B4 43' 4%' 8 3@' 76 16' 56 >' 473' 3 ' 23@' A 5' 62: ' ;>4 ?65'
B43' 56 8 ' 0' 03*- +
' \' 6 ' ' 56 ' 143@ 8325 43)I' 56 ' : >9' 56 3?' 143@ 83 ' 56 8)'
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' 148 ' 354' 56 ' 74>A@)I' 56 9' B> % >' @2><3 ' ; %4> ' 5' 3-+
&"* *0+
T T '(&)3 '& ' .* ' &0 *' 3 '%**%(, ' 625')' 56 ' 43' 4%' #4@' '
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6 'A ?65' 6 > ' 8 235'123' ; ' 34' 456 >' 5623' 5625' : 3 ' 43 ' 4%'
> : A2543)' 76 16' ;>4 ?65' A % ' 23@' 8 84>52A 59' 2A43?' 7 56' 5'
6 ' 6> 523' @ B 3 2543' 143 5235A9' 23@' 3 %4>8 A9' @ 1> ; @'
3' 64A9' 7 > 5' 3@ >' 56 '%? >)' %>48' 56 ' 5 8 ' 5625' 56 ' % > 5' %2 35'
?A 8 8 > 3?' 4%' 5' 2BB 2> @' 25' 2' @ 5231)' 5 AA' 5' 643 ' %4>56' 3' 5 '
% AA' A 5> ' 23@' ?A4>9 ' 5' '4%' 56 ' 28 ' '54' 56 ' B > 5 2A)' 5625'
56 'A ?65' 4%' 56 ' 3' '54' 56 ' 325 >2A' 74>A@ ' 5' ? : 'A %)' 6 2A56)'
23@' : ?4 >' 54' #4@- ' 3 7' 1> 25 43.' 5' 82< '56 ' @29' 4%' 2A:2543'
54' @2 73' B43')' 5' 4B 3 '54' '56 ' B>4 B 15' 4%' 23456 >' 23@' 2'
; 55 >' A %)' 23@' ? @ ' ' 3' 56 ' 729' 54' 62BB 3 '23@' ?A4>9 ' -+
*% & +
T T' 0'(*' ,' , %80 '% 3 %' 3 0'(&)3 ' 6 '544' 4%5 3' 8 3'
4%'@ 4A 5 'A : '1>9' @473' > A ? 43)' ; 12 '56 9'2> ' 37 AA 3?' 54'
; 8 5' 54' 5 '> 5>2 35 K' 56 9' 2> ' A456' 54' ; '5 @' B' ; 9' 56 ' 5> 15'
A27' 23@' > A '4%' 5K' 5' '56 >' 35 > 5' 84> ' 5623' 239' > 2 43' 56 9'
62: ' 2?2 3 5' 5)' 76 16' 82< '56 8' @ B ' 5' 56 9' 625 ' 5' ; 12 '
56 9' 2> '> B>4: @' ; 9' 5' 4-+ &"* *0+
T '4 . $ ' 3 &%' , , ' 6 % ' '&(+ ' 625' 123' ; '56 ' > 2 43'
5625' 48 ' 8 3' 5 AA' B > 5' 3' > + 15 3?' 56 ' A ?65' 4%' 56 ' #4 B A'^
6 9' 7 AA' 5 ' 'B >62B)' 5625' 5' ' ; 12 ' 8 ' #4 B A' '% AA' 4%'
31> @ ; A ' 8 9 5 > .' ; 5' 4 >' 2: 4 >' 5 AA ')' 23@' ' 5 AA ' '
84> '5> A9)' 5625' 5')' H' ; 12 '56 >' @ @ '2> ' : A I' 6 ' 8 9 D
5 > '23@' @ %% 1 A5 '4%' 56 ' #4 B A' 123' ; ' 34' > 2A' 4 ; + 15 43' 54' 239'
823' 5625' 143 @ > ' 7625' 8 9 5 > ' 411 >)' 23@' 7625' 3 B >2 ; A '
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8 9 5 >9)' 7 ' 8 5' ; '1435 35' 7 564 5' 239' > A ? 43' 25' 2AA ' : 3
56 ' > A ? 43' 4%' 325 > ' 5 A%)' 56 ' 764A ' 143 5 5 5 43' ; 456' 4%' 56 '
325 >2A' 23@' 4%' 56 ' 8 4>2A' 74>A@)' ' % AA' 4%' 8 9 5 >9 ' 5' ' 345' 56 3'
; 12 '56 ' # 4 B A' 62 ' 544' A 55A ' A ?65' %4>' 56 ' 8 3' 5625' 56 9' > D
+ 15' 5)' ; 5' ; 12 ' 5' 62 ' 544' 8 16 ' H' ' 4>' : >9' 43 ' 5625' @4 56'
: A' 625 56' 56 ' A ?65) T A 5' 6 ' @ ' 64 A@' ; ' > B>4: @ I' ' 4>'
33 >)' 56 ' A ?65' 4%' 56 ' # 4 B A' ' 8 16' 544' B>9@3?' 23@' 3G 5: '
5' > : 2A ' 1 >52 3' 56 3? ' 7 6 16' 56 9' 7 4 A@' 7 6' 54' 1431 2A' %>48'
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5' 345' 43A9' > : 2A)' ; 5' 5' > B>4: ' 56 8 ' 5' 5> < ' 56 8' 75*'
23' : @ 31 ' 76 16' 56 9' 123345' ; 2>.' 23' : @ 31 ' 345' 43A9' 4%' 5 '
473' 5> 56)' ; 5' 4%' 56 >' 374>569' 143@ 15' 6 ' # 4 B A' @4 ' 3D
@ @' 4%% 3@' 56 8.' ; 5' 5' ' 345' 56 >' 3@ > 523@ 3?)' 5' ' 56 >'
143 1 31)' 5625' ' 641< @.' 56 9' 14 A@' 2 A9' 1> @ 5' 7625' 5' > D
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43 ' 4%' 56 ' 456 >' # 4 B A .' %4>' 6 ' @4 ' 345' @ 1> ; ' 56 ' 1 >1 8D
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B> 438 35' 2 ' 2' %215' 7 AA' <3473 ' %+' *, ,%&,) +
' T ' 4* ,' -$%& /&0)+N' 6 ' @ B 5' 72 ' B>4; 2; A9' 2; 4 5' 56 '
325 > ' 23@' ' 4%' 5' * 78- ' ; 2B5 8 ' -+ 5 &
FW ' *30' 0 6 % ,' 0,' &, ' Q1 R' &9' 56 ' B2>5' 4%' 5' *463- '
@ 28 5 >' 23@' 143@ 15' 6 > ' @ BA29 @)' 3' 6 ' > B> 3?' 56 ' + 2D
A4 9' 4%' 6 '%4AA47 >)' 23@' 2 >5 3?' 56 ' B > 4> 59' 23@' ?A4>9' 4 '
6> 5)' 3' 647' BA 2 3?' 2' 8233 >' 2> ' 56 ' 8 3 5 > ' 4%' 6> 5' 3D
5> 15 @)' 5625' 8 9' 2> ' 54' ; 2>' 5 5 8439' 54' 8)' 345' 54' 56 8D
A: .' 54' <' ?A4>9)' 345' 56 >' 473' .' 5625' 56 9' 64 A@' 52< '
BA 2 > ' 3' 56 ' 11 ' 4%' 56 >' ; > 56> 3- ' A2; 4 >)' ; 9' 76 16' 56 '
12 ' 4%' 56 >' .* *0' 2 5 >' ' B>4 8 45 @.' 5625' 56 ' > 3?' A ?65 '
4%' 56 ' 6 >16' 64 A@' @4' 6434 >' 54' 564 ' 764' 62: ' ?43 ' ; %4> '
56 8)' 23@' 56 ' 55 3?' 43 ' > +4 1 ' 54' ; ' 4 5 643 ' ; 9' 564 ' 764'
2> ' 148 3?' 2%5 >' 56 8.' 5625' 3: 9' 23@' + 2A4 9)' 3' 64>5)' 4 ?65' 51'
62: ' 34' BA21 ' 2 843?' 56 ' @ 1 BA ' 4%' 56 ' " 2 8 ; ' 4%' # 4@)' 43' 7648'
@ 1 3@ @' 23@' 2; 4@ ' 56 ' 1 A 52A' 4: a ' -+ ! *%0 +
T T' ' 0' . 0' % . &' ' 0* 3&0)' Q1 R' 3 ' 764' ; 9' : 3 ' 2 D
564> 59' ' 35> 5 @' 7 56' 239' 148 8 43)' 123345)' C1 @' 5625'
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T T' 4$' 3 ' ' ' 0' 4 *% ' 3& +N ' ' 8 3? >' 230
8 3 5 >)' 345' 54' 2 8 ; A ' @ 1 BA 3' 8 3 ' 473' 328)' ; 5' '
B> B2> ' 8 3' %4>' 8)' 23@' @ > 15' 8 3' 54' 8 ' -+ ! *

Painted by Annibal Carracci *Engraved by Geo. Cooke.*

CHRIST DISCOURSING WITH THE WOMAN OF SAMARIA.

John C.4.v.7.

London, Published by the Society for promoting Christian Knowledge, Nov.r 1.st 1815.

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)/%)<') -*('*5*6 "1 /'&#"2)/*+% '10 "# CI /*1 /* /*%26)/%)3*+4+ B%+ <"&*
)/*B"&%1!B/'<)*+)'#'*6! *)"(6 &*%((' "4) "#346*% '1)" %('(**! /* B*1) 41)" G
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41)"/'&!)/* -*+"40/)/'&)/%)/*B"4(6 K"'1)"#6*%)/
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7 %)) CC "2 ;3*+4+ /'&+*(#)*+)'#'*6!)/%) %* +*25%1)+ &*)/'&! %16)"(6 3& +% '10!
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+**1 %((*)/*)'10+)/%) /*6'6 %)3*24+%(*&)/*#*5*2(*#)/'&
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NN' W*%' $ '3& (' && , 'Q1 R' 6 '72 ' 2@';9'4 >' 2D : 4 >'76 3'25'A 3?56' '7 35'54' 2U2> 56)' 255'C 'OW)E; 5' ' 6 >' 8 35 43 @';9'56 ' :23? A 5)'2'56 '>2 43'769' 3@ @' ' 164 '54' 823 % 5' 8 A%'54'56 '456 >'#2A A 23)';9' '@415> 3 ' 23@' 8 >21A)'; %4> ' '128 '54' 2U2> 56)'76 >' '<3 7'56

6 8 A 59'4%' '@ 125 43' 23@'56 '8 233 '4%' '< 3@> @'74 A@' B>4: '2'B> + @ 1 '54' 8 ' %+' ( ) +
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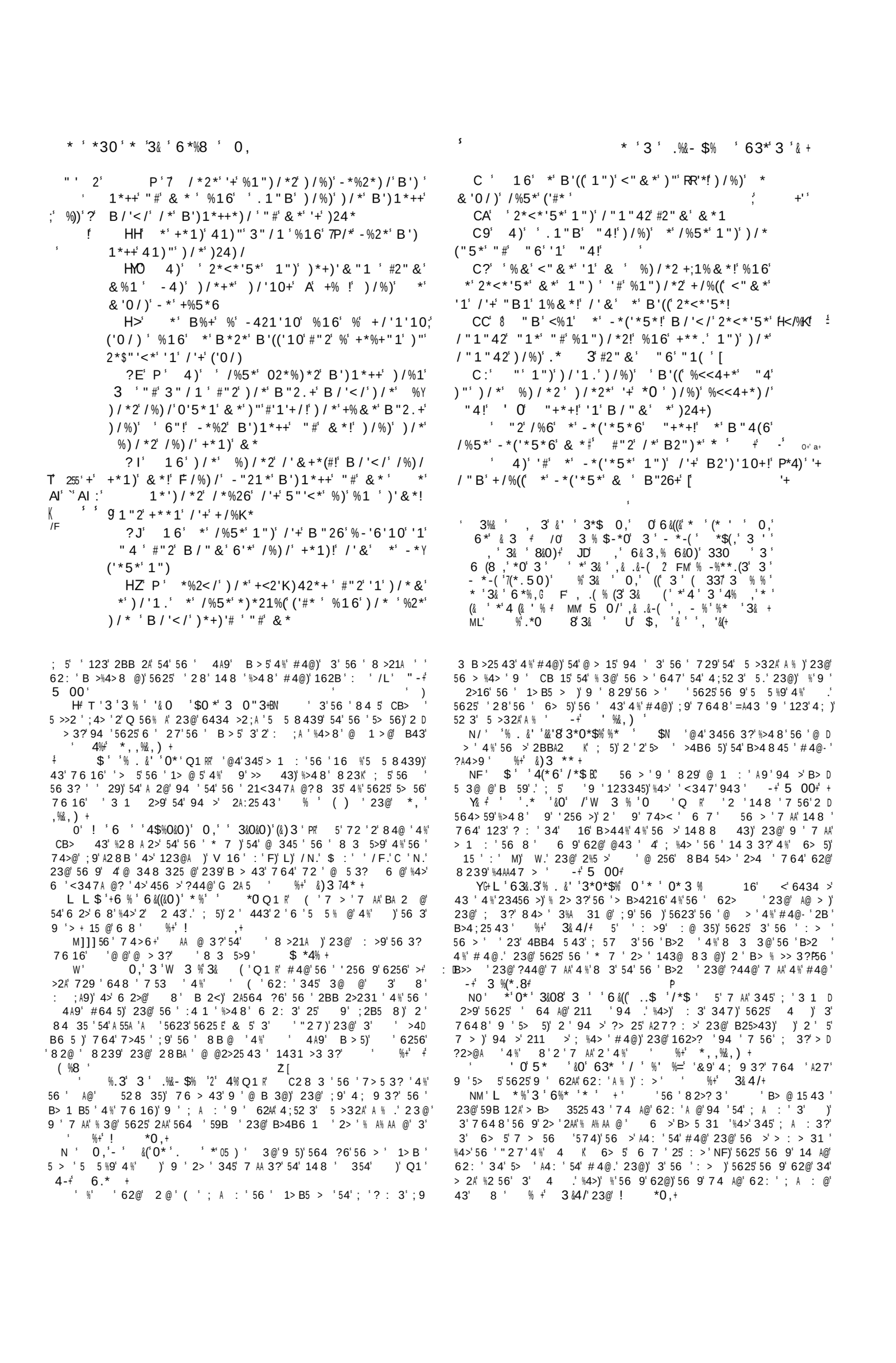
Painted by J.Restout.

Engraved by G.Cooke.

CHRIST AT THE POOL OF BETHESDA.

St. John. C.5.v.2.3.

London Published by the Society for promoting Christian Knowledge May 1.1806.



' 3 %) / *2' 0'5*) / ' & *' +/%((S ! <"&*')"' &*' %16' /'&') /%)' <"&*)/')"' &*7' ' B'((' '1' 1"' B'+*' *%+)' "4) ?J' "2' ' <%&*' 6"B1' #2"&' /*%5*1!' 1"))"' 6"' &'1*' "B1' B'((!' -4)') /*' B'((' "#' /'1)') /%)' +*1)' &*' ! ?L' 16') /'+' '+') /*' %) / *2 +' B'((' B / '</' /%) /' +*1)' &*!') /%)' "#' %((' B / '</' /*' /%) /' 0'5*1' &*' ' +/"4(6' ("+*' 1") / '10!' -4)' +/"4(6' 2%'+*' ')' 4K' %0%'1' %)') / *' (%+)' 6% C ' 16') / '+' '+') / *' B'((' "#' /'&') /%)' E #' &*!') /%)' *5*2 ' "1*' B / '</' +**) /') / *' "1!' '#(' -*('*5*) /' "1' / '&!' &% ' /%5*' *5*2(%+)Y '10' ('#*' %16' ' B'((' 2%'+*' /'&' 4K' %)') / *' (%+)' 6% CA' / *' 3*B+') / *1' & 42& 42*6' %)' / '&!' -*' ' ; <%4+*' / *' +%'6!' ' %&') / *' -2*%6' B / '</' <%&* P 6"B1' #2"&' / *%5*1' P PP'%)) A?') / * ' +%'6!Q +'1")) / '+' 3*+4+!') / * +"1' "#'3"+*K/!' B / "+*!'#%) / *2'%16' &") / *2' B*' . 1"B [' / "B' '+' ')) / *1') / %)' / *' +%') / !' ' <%&*' ' 6"B1'#2"&' / *%5*1' [' >! YH' && ') / *2*#"2*' %1+B*2*6' %16' +%'6' 41)"') / *&!' 42& 42' 1")' %&"10' "42Y +*(5*+ CC' "' &%1' <%1' <"&*)"' &*!' *R<*K)') / *' %) / *2' B / '</' /%) /' +*1)' &*' 62%B' / '&' %16' ' B'((' 2%'+*' / '&' 4K' %)') / *' (%+)' 6% C:' 8)' '+' B2'))*1' '1') / *' K2"K/*)+' 16' T'+' ' '+') / * ' +/%((' -*' %((')%40/)' "#' "6' 5*2 &%1') / *2*#"2*') /%)' /%)((' / *%26!' %16' /%) /' (*%21*6' "#') / *' %) / *2!' <"&*) /' 41)"' &* CE' ")') /%)' %1 ' &%1' /%) /' +**1') / *' %Y) / *2!' 8+%5*' / *' B / '</' '+' "#' "6!' / *' /%) /' 8 %)) 1' +**1') / *' %) / *2 ' *2'(!' 5*2'(!' ' +% ' 41)"' "4 ' *') /%)' -*('*5*) /' "1' &*' /%) /' *5*2(%+)'10' ('#* CJ' ' %2'(') / %)' -2*%6' "#' ('#*

W' ((' 3 ' 3 'W 3 %')&' 3' ' AA' 7648' 9' '256 >' @ DB4 '54' ; ' 9'@ 1BA ' -+' %. + 6 ' '256 >'? : '564 '43A9'54' 6> 5)' 764' 2> 'B> B2> @' ; 9' 23' 643 5'6 2>5)' 23@' 7 AA 3?3 '54' A 2>3 ' "%+' ( ) (+ AA' 764' 82< '2' > ?65' '4%' #4@-' B> : 35 3?' ?>21)' 4'2 '54' C >1 '23' 643 5)' 6 8 ; A)' 5 2162; A)' @ B4 5 43)' 23@' > ?65A9'54' 7 ?6' 9' @415> 3 '23@' 8 >21A ' %+' ((+ 5' ' 8B4 ; A '5625'56 ' CB> 43' 123' ?3 %9'5625'239' 2> ' 2; 4A 5 A9' 164 3' ; 9'56 ' '256 >'54' 5 >32A' A %)' %4>'56 3'56 ' * 7 ' 14 A@' 345' 7 56' 239' > 2 43' ; ' ; A2 8 @' %4>' 345' 148 3?' 54' 6> 5)' 23@' ; A : 3?' 43' 8 .' 34>' 14 A@' 6> 5' 62: ' 3: 5 @' 56 8' 54' 148 '54' 8)' 8 16' A ' 74 A@' '62: '54A@'56 > '5625'56 ' 72 ' 56 ' 74><' 76 16' #4@' > G > @' 5A 8' 54' @4)' %' 56 >' 2; A 59' 54' @4' 56 ' 62@' @ B 3@ @)' 345'43' 56 >' 473' @ B4 5 43)' ; 5'@3'56 ' 164 1 ' 23@' A 15 43' 4%' #4@' %+' 3& 4/+ >' "4>@' 8 ' 54' 62: ' %4> 3' 5625'56 ' B2 2?' ' 8 ?65' ; ' 8 52< 3' ; 9' 8 3' 4%' 14>> B5' 8 3@ 2' 23@)' 2114>@ 3?A9 ' ' 72 ' ?>21 4 A9' BA 2 @' 54' CBA2 3' 5' 8 A%'25'56 ' 28 '5 8)' ; 9' ' 74>@ '25' : >' NN' 6 ' '256 >'56 > %4> ' H' ? : I' 56 8' ; 9' @>27D 3?'56 8' 354' 56 ' 43.' '@>27 ' 56 8' 345' 7 56' %4>1 '23@' : 4D A 31)' ; 5'2 ' 8 3)' 2 ' > 2 432; A ' 23@' %> ' 2? 35)' 3' 148BA231 ' 7 56)' 345' 3' 4BB4 5 43'54)' 56 >' 7 ' -+' ' %&,) + ' 345 ' 25' 162B' C: ' /F' 3 ((' .* ' *' '9R' 62AA' 148 ' 54' ' 2 ' 56 >' 2: 4 >. 62AA' ; A : '23@'5> 5' 3' ' %4>'5A >' 2A:25 43)' 23@' %4>' 2AA' 56 3? ' 3 1 2>9' 3' 4>@ >' 54' 5 ' - ' ' %&,) + T T' '6&(('&0' 0*' 6& '. ' $+%' > ; 9'? : 3?' 56 '% AA 5'B4 D ; A ' 2 >231 '5625' '7 AA' 345'> % '4>' > + 15' 239' 5625' 148 '54' 8)' ; 53: AA' > 1 : '56 8' 354' ' %A41<)' 5625' 56 9' 829' 345' ; ' A4 5' 23@' B > 6' -+' ' %&,) + HI+T' 3 ' ' ((' 63&.3' 3' 3 ' 3')&' 0' ' Q1 R' 625' ' 64 A@' ; ' 12> % A' 54' B> >: ' 2AA' 764' 7 56 23' 643 5'6 2>5' 62AA' 56 '148 ' 23@' ; A : ' 43')' 23@' ? : '54' : >9' 43 ' 764' 56 '148)' ; D @ ' 8239' C1 AA 35'B> : A ? '6 >)' 5 >32A' A % ' 6 > 2%5 >' %+' ! *0,+ N ' T' 63&.3' 3' 3 ' *0%' ': 625')' 143 @ > ' 23@' @ 1 >3 ' 8' 2'56 ' 43' 4%' #4@)' 2 ' 56 ' 26 ' %+' % - -+ 625' @ ' >3 56' 8' 54' ; ' 2' >4B6 5' 35'%>48' #4@' %+' 3& 4/+ 625' 21<347A @? 56' 2AA' 56 '5 5 843 '4%' 2' : 3 ' 2 564> 59' 5625' 2> ' @ 1 >3 ; A ' 3' 8 ' %+' ($) + NF' T' 3*0" & ' & ' 3 0' 3 ' 3 ' &3' Q1 R' 47' 14 A@' '148 ' @473' %>48' 6 2: 3)' 764' 72 ' ; 4>3' 354' 56 ' 74>A@)' 2 ' 456 >' 8 3' 2>)' 23@' 3'56 ' 8 23 5'1>1 8 5231 '^ %+' ( ) + NN' *' 0' .0' .* ' *' 'Q1 R' >' 2: 4 >' '6 > ' B 2< 3?' 4%'564 ' 764)' 3' 143 G 31' 4%' 8 ; >21 3?' '> A ? 43)' 62AA' 3D 6 > 5' 5 >32A' A % .' 23@' '@ 1A2> ' 5625' 34' 43 ' 123' 2552 3' 56 ' 2: 3?' %2 56' 7 564 5'56 ' @ > 15 3?' 3%A 31 ' 4%' 56 ' 4A9' B > 5'+' 23@' 5625' : >9' 43 ' 764' 62 ' 62@ 23' 4BB4>5 3 59' 4%' ; 148 3?' 21D +"1' "#'3"+*K/!' B / "+*!'#%) / *2'%16' &") / *2' B*' . 1"B [' / "B' '+' ')) / *1') / %)' / *' +%') / !' ' <%&*' ' 6"B1'#2"&' / *%5*1' [' >! YH' && ') / *2*#"2*' %1+B*2*6' %16' +%'6' 41)"') / *&!' 42& 42' 1")' %&"10' "42Y +*(5*+ CC' "' &%1' <%1' <"&*)"' &*!' *R<*K)') / *' %) / *2' B / '</' /%) /' +*1)' &*' 62%B' / '&' %16' ' B'((' 2%'+*' / '&' 4K' %)') / *' (%+)' 6% C:' 8)' '+' B2'))*1' '1') / *' K2"K/*)+' 16' T'+' ' '+') / * ' +/%((' -*' %((')%40/)' "#' "6' 5*2 &%1') / *2*#"2*') /%)' /%)((' / *%26!' %16' /%) /' (*%21*6' "#') / *' %) / *2!' <"&*) /' 41)"' &* CE' ")') /%)' %1 ' &%1' /%) /' +**1') / *' %Y) / *2!' 8+%5*' / *' B / '</' '+' "#' "6!' / *' /%) /' 8 %)) 1' +**1') / *' %) / *2 ' *2'(!' 5*2'(!' ' +% ' 41)"' "4 ' *') /%)' -*('*5*) /' "1' &*' /%) /' *5*2(%+)'10' ('#* CJ' ' %2'(') / %)' -2*%6' "#' ('#*

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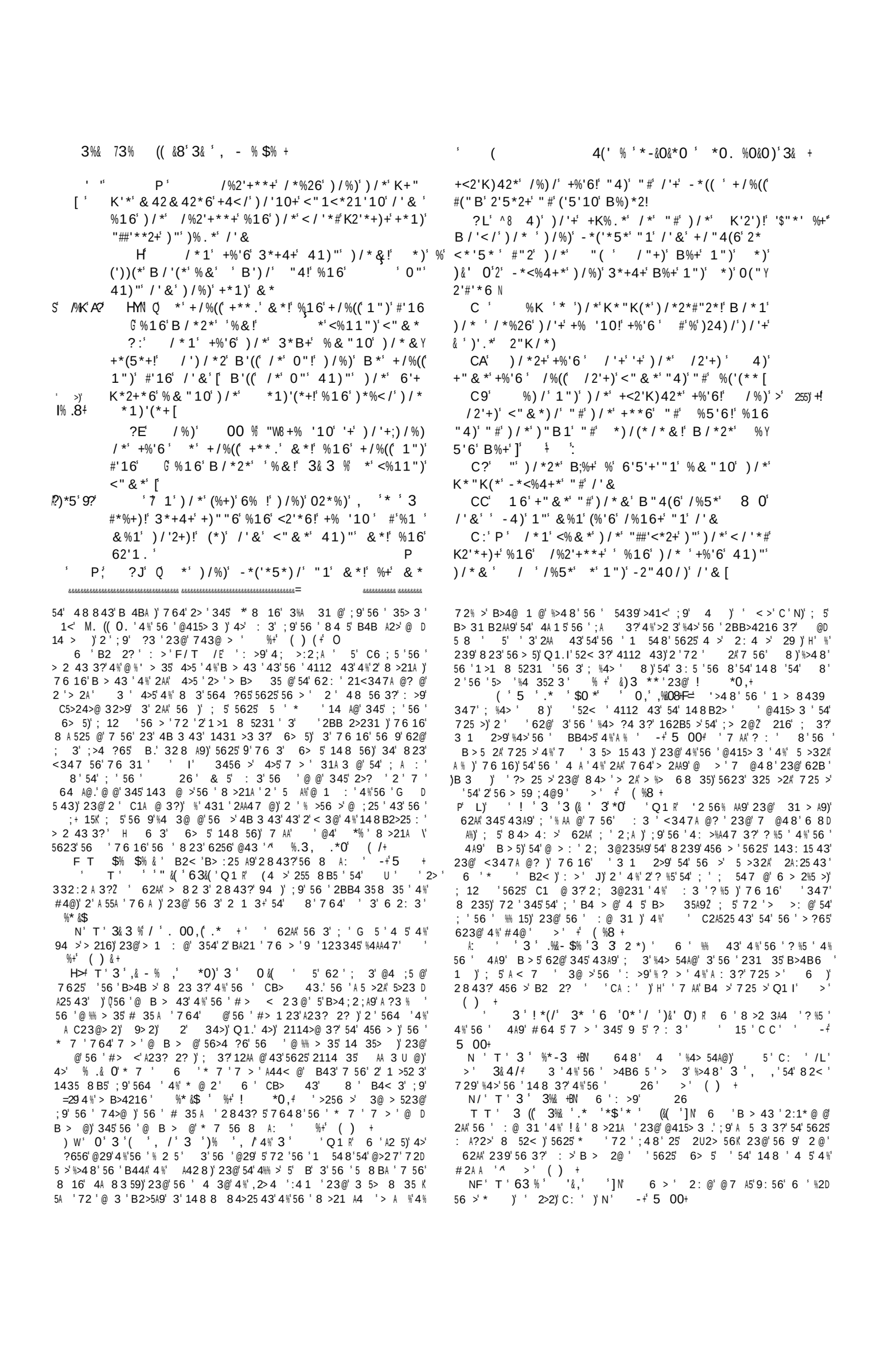

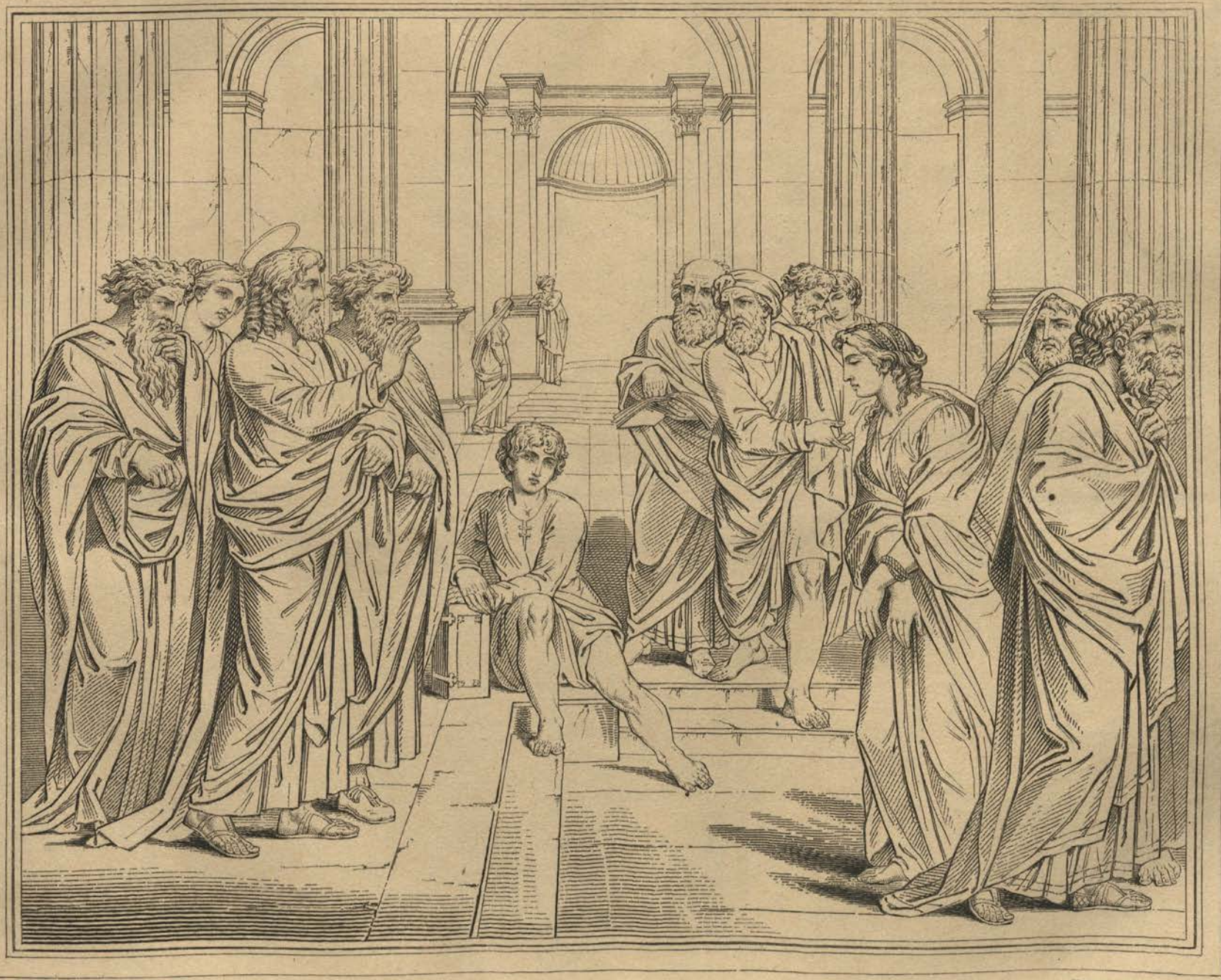

Painted by Agostino Carracci.

Engraved by H.Moses.

THE WOMAN TAKEN IN ADULTERY.

John ch.8.ve.3.

Published by the Society for promoting Christian Knowledge. Nov.1.1815.

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9A' /*1'+%'6'3*+4+'%0%'1'41)"')/*&!' ')*'&'B% !'%16'*'+/%((+**.'&*!'%16'+/%((' 6'*'1' "42'+'1+'B/')/*2'0"!' *'<%11")' <"&*

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4%' ' '56'4 A9'729'54';>3?'94 '54'56'<347A @?'4%' 9' '256>' W ' ! *0,+ F ' T '&3'% $%/ 6 'B2>5'4%'56'5 8BA'76>'72'56' @ 5%4>'>1 :3?'56'4%%>3?'4%'56'74>6BB>' -' %. + T '5'3*$ ' 6'64>'4%' 'A2 5' %%>3?'34;@ 31'54 ''256>-'7 AA' >' ( ). ') *' /' /'Q R' '62AA'@G2>5'%>48'6 31)'23@'56 3' 9'7 3' <' '54'34'B >B4 '.'23@';9'B > 5 3?'3'2'62>@ 3 @' 3; A %'4%')': >'FN)'9'7 AA';>3?'+ @= 35'43'94 > A:)' 2'52< 3?'34'72>3 3?';9'56 'B> 216 3?'4%'2' >4B6 5)' U <' '/JK '5'7 '56 3';'544'A25'%4>'94 '54'7 6'54'>12AA'56 '5 8)'%4>' ' 62AA'56 3'62:'@ B2>5 @'54'2'BA21'76>'9 '123345'148 '54' ' >' ! *0,+) F '%'%* '4 0 3Z' ' 'Q1 ' (4 '23@' '2>'4%': >9 @ %% > 35 4>? 32A K' 94 >' 2%% 1543)'A<' 94 - A:)' 2>' 4%' 23' 2>56A9'5 8B >'23@'4> =3.'23@'56 >%4>'94 ' 82?3' 16'B >D : > ' 35 >B> 525 43' 4%' 9' 74>@' 2' 5625'4%': >'F/E' ! %+ ! *0,+ FN'T'3 & ')R' 6 ' 26)'56' >4B6 5'764'72'54'148 F0'T'3' '3 ' ' &,'$0*'/*$Q1R' 625'%>48'56'% > 5' ' 2@'5625' '72')'5625' '2%%>8'54'94 ' 5 ' >' + (%3 + '' '3 ' ' 0/' 3&0) ' *' /'Q ' '14 A@'52<'4112 43)'%>48' '56 ' 3> 2 432;A'G 543'4%'94 >)'54'162>?'94 '7 56' :>2A 56 3?'76 16'94 '74 A@'345'12>'54'6 2>K ; 5' 'B2 '56 8';9'25' B> 35)'23@'@ >'94 '54'>3 8;>'56 '76 16' ' 29.' '5625' 35' =CB 15'54';' ; A :@)'23@'94 '7 AA'%3@'5'2'5 >> ;A'56 3?'54' ?2 3 29' '2 564>59K'8 2><'5 3'2A 4)'5625' 3' 2AA'564 ' 3 5> 1D 543'76 16'62:'?:' 3'54'56'74>A@)' '@ A: > @'3456 3?'76 16' '7 AA'345'+ 5%9' ! %+' ( ) + FL' T' 3 0'/'3 ' '(& ,'$-'3 '*0'* ' 0F= 6 3'9' 62AA' 62:'A%5 @' B' 56' 43'4%'823'43'56'1>4 .' '162B' '/N.' C: ' F' -' 5 00+ T' \' 3 0' 3 ((' / '80*0 ' &9'56'% >56 >' :@ 31 '2%%4>@ @';9' 9' > >> 1543'23@'2 1 3 43.'C!%+' ! 060,?R 23@';9'56' %>2 43'4%'56' 4A9'#64 5' >' 3&4/+

' '3' - 8'3 '%'*%, ' 0/'4 (&' ,'*0'3& +B' 23 3?' 5625)' B43'* -'%4> 5 AA 3?'8239'56 3?'5625'7 >'54'62BB 3'54' 8 A%'23@'54'56'325 43'4%'56'* 7)' 8239'5625'6 2>@' 8' 7 >'@ B4 @'54'143 @ >'23@'148B2>'76 25'56 9'62@'<3473'23@ 6 2>@'4%' 8';%4>.'23@'; 3?'B > 2@ @'5625' '72'2' >D 43' 35'%>48'#4@)'56 9'@ 1A2>@'5625'56 9'74 A@';148' ' @ 1BA ' >' + (%8 + F' T' 3 ((8'/*$%+BN' (4 '62AA'*4 &0' 3'?> 25 5'23@ 84 5'@ >2;A'%> @48' >' + (%8 R %>48' 3'/*8 ' * ';43D @2?'54' 3'23@'14>> B5 43)': >' N' >' 3&4/& ' T'6 %'0 ' %&0'3*0,)C' 5'6 31' %%1 35A9'2BB 2>'647' 8 16'56 9'?A4>@' ';3?'4%'56 ' @'4%' ;>2628)'23@'64 ' + 2A4 '56 9'7 >'4%'56 >'%> @48')'56 9'6 >' 29)'2>' 4%'56 ' @'4%' ;>2628)'4%'5625'>21'764'2>' 255216 @'54'4 > A;>59'23@'5 321 4 '4%'5)'23@)'2'%2>'2'1431 >3'4 > A:)'7 >' 3 :>' 3';43@2?'54'239'823' >' &)3 ** + 5'56 ': >9'5 8 '76 3'56 9' B2<'56)'56 9'7 >' ;+ 15'54' 56 '*A4823'B47 >)'; 5'56 9'B> >: @'56 '2BB 2>231'4%'A; >59)' 5625'56 9'> 52 3 @'56 >' 3 55 543'23@'7 >'?4: >3 @';9'56 >' 473'A27 N'T'&'3' %' 0'*' '> BA '(4 '8 3@ > 523@ .' ' B 2<'345'4%';4@ A9'%> @48)';5'4%' B>5 2A.'4%'%> @48' %>48'B> + @1'23@' 3' -' 5 00+ 0'T'3' %' 0' 4&, 3'74Z' ('56 3<'94 > A: '%>)'2' ; 3?'@ 1 3@ @'%>83' ;>2628)'23@'A: 3?' 3@ >'56 'A27'4%' 4 ' & 5' ;>2628'23@' 4 ' 7 >' 8 > A9' >:235)'23@ 56 > %4>'56 >'2 564>59'72'43A9'%4>'2'5 8 '.' 76 > 2'56'2 564D > 59'4%'56 ' 43' 62AA'3 : >'62:'23' 3@' ' -' 5 00+ D+' 3' *0'3 % *%'Q ' %'56 > %4>'9'7 AA' ;8 5'54' ;'82@'%> '4%'#4@-'64 ';9'56'2 564>59'4%'56 ' 43)'9' 62AA'?2 3'2'%> @48'76 16'9'123'3 :>'A4)' %'9'7 AA';5 1435 3 ' 3@ >'56'@415>3'23@'?4: >38 35'4%'56 ' 43' >' ( ) + ' T' /'6*%,'3 3'0*-(.'&0'/*$+' (4 >'14>> B5'2%% 1543' 7 AA'345'B >8 5'94 '54' 8;>21'5' ! %+' 3&4/+

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7 '3"'1+ CC 7 * %2* " # *$%#%) / *2) / * 6*5'(! %16 HZ) / *(4+)+ " # "42 #%) / *2 * B'((6" * B%+ %& 426*2*2 #2"&') / * -*0'11'10! %16 %-"6* 1") '1) / *)24) /! -*<%4+*) / *2* '+ 1")24) / '1 / '& / *1 / * +K*%.*) / %('*! / * +K*%.

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CJ / *1 %1+B*2*6) / * 3*B+! %16 +%'6 41)" / '&! % B* 1") B*((( ) / %)) / "4 %2) . %&%2')%1! %16 / %+) %6*5'([

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>>' *)' *' /%5*' 1")' .1"B1' /'& 7-4)' '
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2*1)+!')/%)'/*' B%+' -"21' -('16'[
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354'56 ' 74>A@)' 76 16' 72 ' 56 3' @ 5235)' 23@' 5625' B>4 B 15' 72 ' 56 '
;+ 15' 4%' ?> 25' ?A2@3 ' 54' 6 8 ' 0' 03*- ' 56 ' 345 '
43' # 3 ' CC ' /J
' T '0*' / ' & /' / % ' *(, N' >' 2: 4 >' 72 ' 25' 56 ' 5 8 '
12>1 A9' 56 >59 56> ' 9 2> ' 4A@' 6 9' B' 56 ' 5 >8' 9' %%59I' 2 ' 2'
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OL' T' *% ' 4% 3 ' 6 ' ' 7N 6 ' ' 4%'56 ' CB> 43'
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4A 5 A9' > G > ' 5625' 5' 64 A@' @ 345)' 345' 8 > A9' 2' B> 35' ; D
3?)' ; 5' 2' B> 4> 59' 4%' C 5 31)' 54? 56 >' 7 56' 2' 1435 3 25 43' 4%' 5
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72 ' ;48)' ' 62@' 2' > 2A' ; 3?' 23@' C 5 31)' ; 9' 76 16' ' 72 ' 12D
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(' ' ' 347' 2' 823.' ; 5)' ; %4> ' ;>2628' 23@' ; %4> ' 2AA'
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>2 A 5)' H' ' ' 6256' 35' 8 ' 354' 94)I' XC4@' ' /N' %+'
( ) +
2@' 56 ' C 5 31 ' 4%' 4 >' ;A @' 2: 4 >' ; 3' 8 2 > @' ; 9'
5 8)' 2 ' '5625' 4%' 2AA' 1> 25 @' ; 3? ' ' 8 5' 62: ' 2 @' & %4> '
;>2628' 72)' ' 6 ')' ; 5' ' 74>@' % ' 9' & %4> ' ;>2A 28' 72)'
' 7 &56 ' 3?' 56 ' 28 ' CB> 43' 4%' 8 A%)' 76 16' 56 ' 5 >D
32A' #4@' @4 ' 25' C4@' ' /N.' 23@' 6 > ;9' @ 843 5>25 3?' 8 A%'
54' ; ' 56 ' 28 ' #2@' 764' 56 > ' 2 @)' H' ' ' ' ' I'
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;A2 B6 89)' 23@' 48 5 8 ' 3%A 15 @' ; 9' U 2A45 ' 7 564 5' 239' %4> 8 2A'
B>41 '4>' 35 31 ' 4%' 56 ' A27 ' 0' 03*- +
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62B' ' : >' (+F ' $ ' - ,' 4/ N 2 @' 56>4 ?6' 56 '
5> 5 ' 4%' * > 2A 8)' B>4;2;A9' 43' 48 ' 456 >' @29' 5623' 5625' 43'
76 16' 56 ' %4> ?4 3?' : 35 ' 411 >> @' -+ %. +
': F' ' 3*' ,&,' &0' 3& ' % '*%' 3& '- % 0 N ' & ' 3% >> @' %>48
56 ' G 5 43)' 5625' 56 ' 4B 3 43)' B>4B2?25 @' ; 9' 56 ' #> 1 23' B6 A4D
4B6 >' 9562?4>2)' 5625' 56 ' 4 6' 4%' 8 3' 8 ?>25 ' %>48' 43 ' ; 4@9

54' 23456 >' 2%5 >' @ 256)' 72 ' 25' 56 ' 5 8 ' 1 >> 35' 28 43?' 56 ' * 7 .'
31 ' 56 ' 3 ' 148 8 55 @' ; 9' 56 ' 823)' %4>' 76 16' 6 ' 72 ' 3*%0'
;A 3@)' 14 A@' 43A9' 62: ' ; 3' 148 8 55 @' ; 9' 6 8' 3' 48 ' B> C 5D
35' 525 ' 6 ' 56 ' 8 23 3?' 4%' 56 ' G 5 43' 8 ' 54' ;)' 2 ' 5'
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3 5 ' 7 @4 8' 4%' # 4@' % > @' 56 ' 823' 54' 148 ' 354' 56 ' 74>A@' 3'
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52;A ' 8 >21A ' B43' 8)' 23@' 4%' > 8 2><2;A9' @ BA29 3?' 56 ' : 3 '
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N)' 0 ' i ' $ ' 6*%8' 3 ' 6*%8 ' Q1 =' ' AA @ 3?' 54' 3 ' 1 > ' 76 16'
' 7 ' 2;4 5' 54' %% 15' 43' 56 ' ;A 3@' 823)' 4 >' 2: 4 >' 29 ' ' 4>'
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B > 4@' 7 AA' 64>5A9' 148 ' 76 3' ' 62AA' ; ' 52< 3' 2729' %>48' 56 8)'
23@' 56 3' 56 9' 123' 62: ' 34' 84> ' 56 ' 2@:2352? ' 4%' 9' B > 432A'
B> 31 ' 6 ' 5 8 ' 56 > %4>)' 76 16' ' 62: ' A %5)' ' 8 5' 764AA9'
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N' T ' 3 '0&)3'.* 3N 6 3' ' 62AA' ; ' 52< 3' 2729' %>48' 56
74>A@')
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7 > ' 8BA49 @' ; 9' 4 >' "4>@)' 3' B >%4>8 3?' ' 8 ?659' 74><)'
56 9' 7 > ' 345' @ ?3 @' 54' 62: ' 239' 4B >25 43' 4%' 56 8 A: .'
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B> 35' 3 5231 ' B>4;2;A9' 62@' 2' : 7' 54' 5>9' 56 ' 823-' %256)'
2 ' A 62' @ @' 5625' 4%' 2 323)' F' ! 3? ' : ' / ' 4-+ 6. +
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' 63&.3' & ' 4/' &0"%-% &*0' 0 +N 6 ' 328 ' A428' 4>
A42' ?3 % ' 56 ' 28 ' 2 ' 6 A46)' 56 ' 328 ' ; 9' 76 16' 4 >' 2: 4 >'
72 ' B4< 3' 4%' 3' 56 'B>4B6 1 ' 6 ' 8 23 3?' ' 6 16)' ; 9' 5 '
328 ' 829' B 5' 94 ' 3' 8 3@' 4%' 56 ' 26)' 764' ' 59A @' A A4;)'
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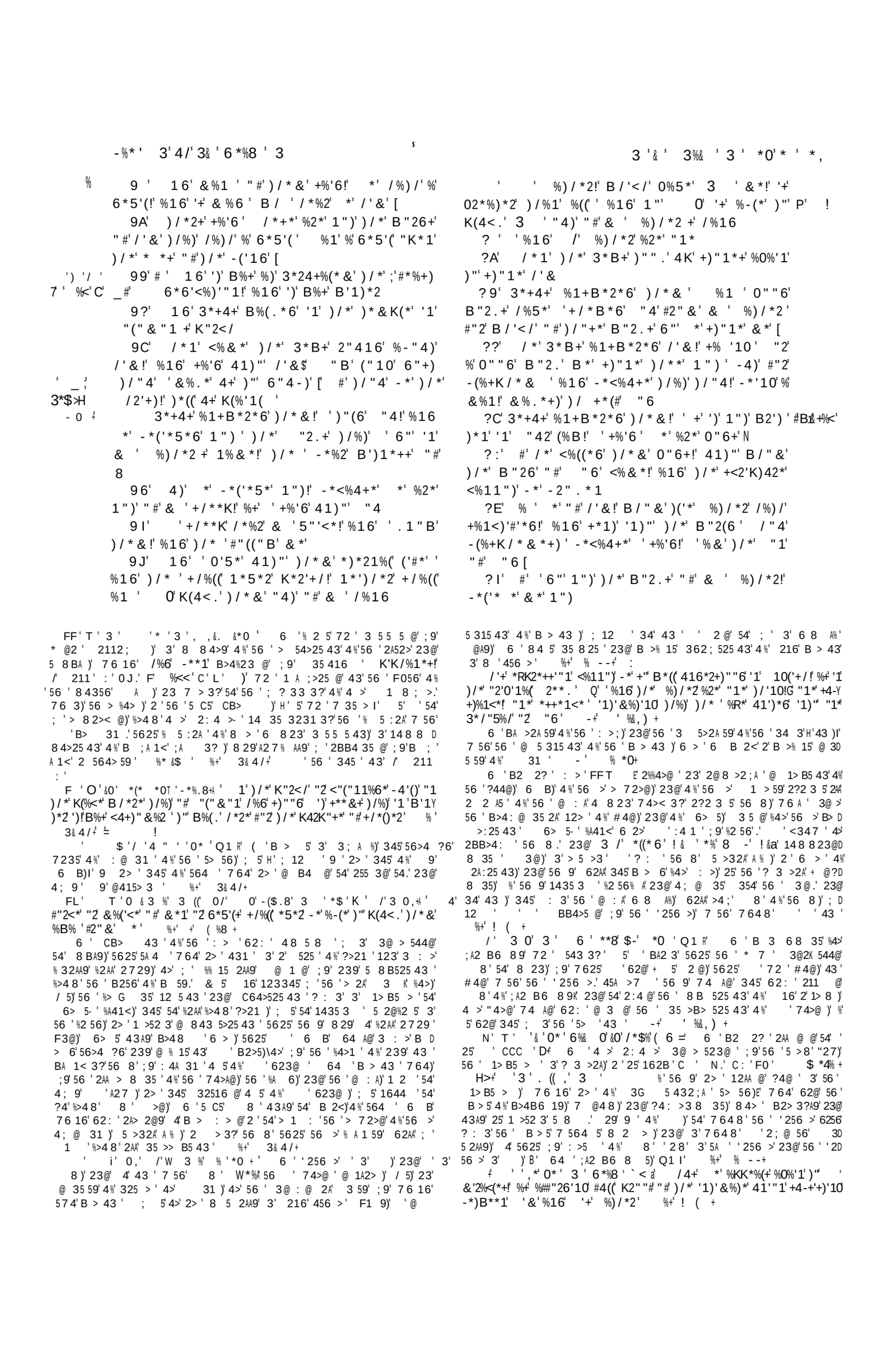

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Painted by P.P.Rubens.

Engraved by il.Moses.

CHRIST RAISETH LAZARUS.

Luke ch.11.ve.41.

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)2"4-(*6''1 +K'2')! %16)*+)'#'*6! %16 +%'6!
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)K /'&! 4 3* 3&0))/%)B* /%5*1**6
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3 '5625' 5'*4+ 3'72)'9 5' 3'2' : >9' ?3%1235' 3)'54'; '56 '
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6 : 3A9'> 3@'62'@ 1A2> @)'23@' > @A9'829'; '5> 5 @)'
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5'*463'72'; A4: @'4%' 8'764'72' 8 A%'; A4: @'4%'56 '
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;)' C5 3@ 3?'54'2AA' 823< 3@)'23@' : 3'54'4 >'?> 25 5' 3 8 '%'
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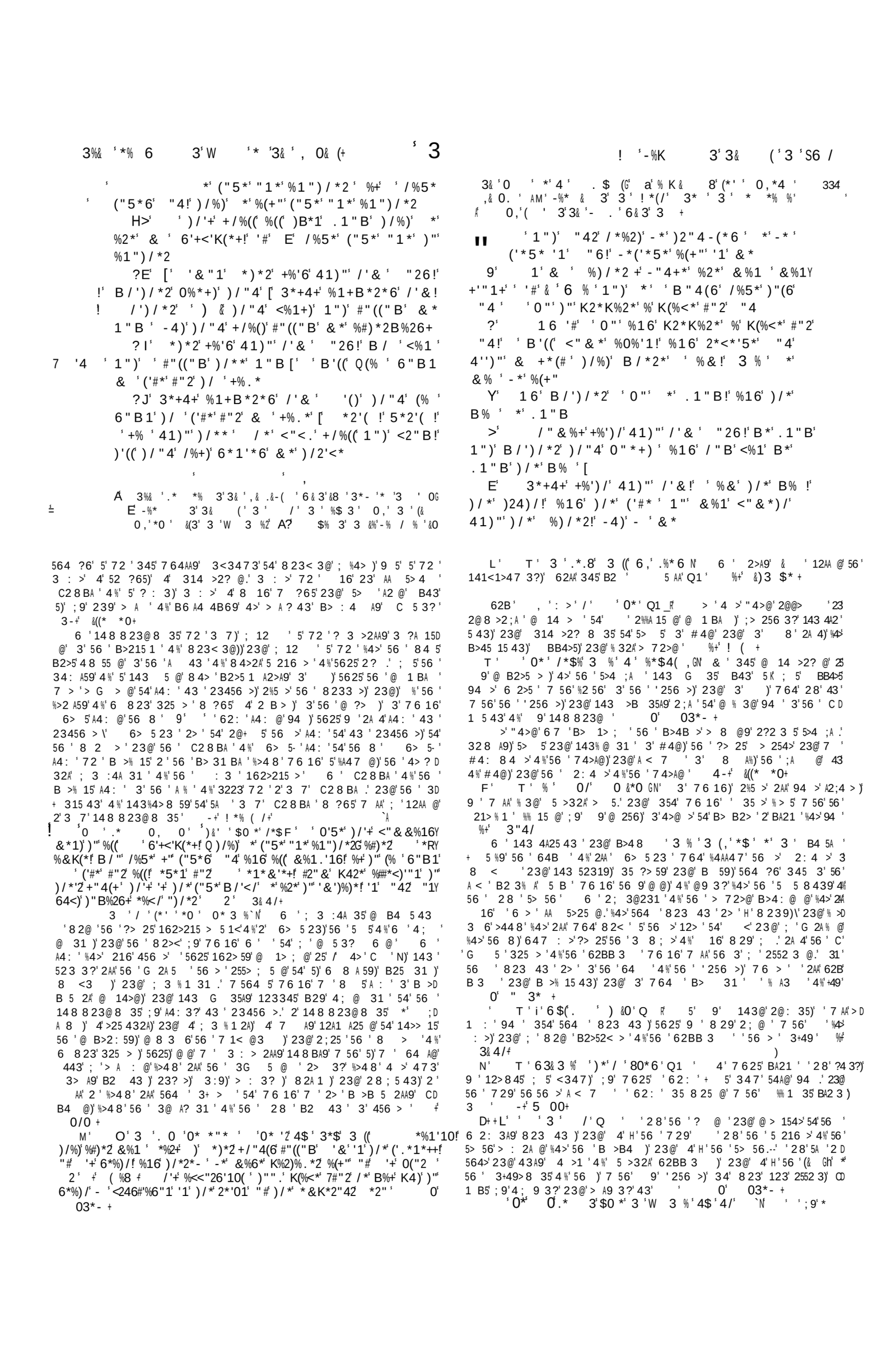

& *' <" & & %16 & *1)!' *5*1' +"' ' 6" ' 2'+*!'

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' ')/*')24*'5'1*!'%16'& ' %)/*2''+')/*'! ' #' *'%-'6*'1' & *!'%16''/ 'B"26+'%-'6*' / 4+-%16&%1 '1' "4!' *' +/%((' %+.' B/%)' *' B'((!' %16' ')' Q 255' ' 9' Q 5*2 '-2%1</'1' & *')/%)'-*%2*)/'1")' +/%((' -*' 6"1*41)"' "4 ' #24')' /*')%.*)/' %B % ' %16' *5*2 ' 4 ,F ! ' *2*'1''+' & ' %)/*2'0("2'#'*6!')/%)' *')/%)' -*%2*)/' #24')!!' /*' K420*)/' ')!')/%)' ')' -*%2' & 4</' #24') ' +"'+/%((' *' -*' & ' 6'+<'Y & % ' -2'10'#"2)/' & "2*'#24') K(*+ /%K' ' @ "B' *'%2*'<(*%1')/2"40/!')/*'B"26 L' +')/*' %)/*2'/%)/'("5*6' & *!' +"' /%5*' B/'</' ' /%5*'+K". *1'41)"' "4 '("5*6' "4 ' <"1)'14*' *''1' & '("5* C' -'6*' '1' & *!'%16' ''1' "4 ' +')/*' ' #' *' .**K' & ' <"& &%16&*1)+!' *' -2%1</' <%11")' -*%2'#24')' "#')+*(#!' *R<*K)' +/%((' %-'6*' '1' & ' ("5*' *5*1' %+' ' /%5*' ')'%-'6*''1')/*'5'1*''1"' & "2*'<%1' *!' *RP' .*K)' & ' %)/*2+' <"& &%16&*1)+!' %16' %' <*K)' *'%-'6*''1'& * -'6*''1'/'+'("5* :' ' %&')/*'5'1*!' *' ')/*!'-2%1</*+ //' 6 '56 3?'62:' ' B4< 3' 354'94

/ T %& '('0')*'30. +F= 56 >54' '62@'@ 14 > @' 3' 56'64 .' 347' 'A 2@'56 8'4 5'54'56 'BA21'76 >' '72'54' ;'2BB> 6 3@ @' 6 '@ 14 > ' 3'56'574'3 C5'162B5 >')'23@' 56 'B>29 >)' 162B)' C:)' 8'54'62: K ; 3' B4< 3' 2'56 9'7 35' 2A43?'%>48'* > 2A 8'54'56 '?2>@ 3'43'56 '84 35'4%' A: ' ! %+' ((F =

62B' , ': >'/' ' 3' %$ ' 7)' >62B'4 >' 2:4 >' B4< '56 '74>@' '43'56 '4112 43'4%'56 B'@> 3< 3?'56 'A2 5'1 B' 4%'7 3)'2114>@ 3?'%4'1 548)'2%5 >'56 ' BB >2' 2%5 >' '62@' 2@' 5625' ' 64 A@' 34' 84> '@> 3<' 4%'56 '%> 5'4%'56 ': 3)'5 AA' ' 64 A@'@> 3<' 5'3 7' 3'56 '< 3?@48'4%'#4@)' 255'CC: 'FJ' ' @ 14 > '6 > '8 29'2AA @ '54'5625' CB> 43=' 4>' 8 29' 62: ' 2> 3' 4 5'4%'5' ! %+' +' (%&. + + >' 2:4 >)'64A@ 3?'56 '@ 14 > ' 8 8 @ 25 A9' 2%5 >' 56 ' 3D 5 5 5 43'4%'56 '64A9' 21>28 35)' 3'76 16' '62@' 2@)'H' 6 '1 B' '56 '3 7'5 528 35' 3' 9' ;A44@)I' 2@@)'H' '28'56 '5> ': 3 ' 4' 5625)'%4>' 56 '% 5 >)'56 ' 6 >16' ' 54' ; ' 3@ >' 56 '2@8 3 D 5>25 43' 4%' 2' 3 7'5 528 35.' %>48)'6 31 %4>72>@'H' '28'56 '5> ' : 3)I' 354' 76 16' 2AA' 56 ' ;>2316 ' 4%'56 ' 6 >16' 8 5' ; ' 3D ?>2%5 @)' 23@' 345' &O *' 56 ' >2 A 5 6' : 3 '239'84> ' ! %+' &)3 ' ** F 6 '* 7 6' 6 >16'62@'4%5 3' ; 3' 98 ; 4A U @' '56 ' A@' 528 35' ; 9' 2'164 1 ': 3 'BA235 @' 3'56 ' 6 AA' 14 35>9'4%'* @ 2)' ; 9' #4@' 8 A%' 2 ' 56 ' 6 ; 2%6@823)' ' CCC' LT / /.' 2 ': /T W.' * >' ' F/' & 5)'76 3'56 ' 6 ?6A9 %2:4 > @' : 3 '@ ? 3 D >25 @)' 23@' ;>4 ?65' %4>56' \' 7 A@' ?>2B)I' 4>' 56 ' * 7 6' 6 >16' ; 128 ' 14>> B5' 3' %2 56' 23@' B>2151)' 5' 72 ' 56> 25 3 @' 54' ; ' >445 @' B' 23@'54' ; ' B > @ @' ; 9' 56 ' 6> 5 23' 6 >16)'%4 3@ @' 3' 6> 5' 8 A%' 2 ' 56 '5> ': 3)' 4%' 76 16' ' @ 1 BA ' 7 > '54' ; ' 56 ' 8 2: ; > '4>' ;>2316 .' & 5' '72>3 ' 56 8' 5625' 56 ' 6> D 5 23' 6 >16' 72 ' 5 AA' ;+ 15' 54' 56 ' 28 ' @ 1 BA 3 '23@' 1 A5 > ' 2 ' 56 ' * 7 6.)'%4>' #4@' 74 A@' G 5' 4%%' : >9' ; >> 3' ;>2316' 3' P 6> 5.' 23@' B> 3 ' : >9' ; 2> 3?' ;>2316)' 5625' 5' 8 ?65' B>4@ 1 ' 84>' %> 5' ! %+' ! (+ ! ' 8 23 '6 > ' 3'56 ' CB> 43)'H' '28'56 ': 3)I' 8 A%)' 3' 2' 148 BA C' 3 .' 54? 56 >' 7 56' ' 6 >16)' 35 8 25 3?' 56 ' 1A4 ' 3 43' 5625' ; 5' ; 57 3' 8' 23@' ' 6 >16)' 56 ' 541<' 23@' 56 ' ;>2316 ' ! 0' 03*- /'W 3 %'& ' 3 '3$ 4 0, 0H' 8 BA9 3?' 56 '?> 25' 12> ' 4% #4@'%4>' 56 ' 8 B>4: 8 35' 23@' B> >:25 43' 4%' ' 6 >16?' 2' 12> ' C5 3@ @' 54' : >9' 3?A ' ;>2316)' 3' 5625' 8 233 >' 76 16' '> G > @' '- ' 216)' 23@' 5 3@ ' 54' 56 ' 148 843' ?44@' 4%' 56 ' 764A ' 0' 03*- + F' T '3 ' -$%) 3'& ' 3 'Q1 ' ' @> ' 23@' B> 3 ' 5)' 5625' 5' 829' ; '% 5' %4>' ; 2> 3?' -F 5 00F #4@' B > % '23@' 28 3@ ' 56 ' 8 8 ; > '4%' ' 6 >16' ; 9' 56 ' :2> 4 ' @ B 3 25 43 ' 4%'

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11")/%)' & '$" ' & '0/)' 2* & %'1' '1' "4!' %16' -/ -
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> "'P ' ' ' 8' /'+' '+' & '<" & & %16 & *1) ' /%)' *
+7' P' ("5*' "1*' %1")/*2!' %+' ' /%5*' -5*6' "4
' , 8&' 2*%)*2' ("5*' /%)/'1"' & %1')/%1')/'+!
' 3"/1' ')$$%)' %' & %1' (% ' 6"B1' /'+' ('#*' #"2' /'+'
77U #2'*16+
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A:' *1<*#"2)/' '<%((' "4' 1")' +*25%1)+'
#"2')/*' +*25%1)' .1"B*)/'1")' B/%)' /' '("26'
6"*)/' -4)' '/%5*' <%((*6' "4' #2'*16+' = #"2'
%((')/'10+')/%)' '/%5*'/*%26' "#' & ' %)/*2'
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AE' *'/%5*'1")' </"+*1' & *!' -4)' '/%5*'
> 255 </"+*1' "4!' %16' P"26%'1*6' "4!')/%)' *
+ +/"4(6'0"' %16' -2'10'#"2)/'#24')!' %16' -/ -
"42'#24')' +/"4(6'2* & %'1')/%)' B/%)+"*5*2'
' +/%((' %+.'"#')/' %)/*2''1' & '1%& 1!'/*'
& % '0'5*')' "4
AI' /*+*')/'10+' '<" & & %16' "4!')/%)P*'
("5*' "1*' %1")/*2
AJ' #')/*' B"2(6'/%)*' "4!' *' .1"B')/%)'
')' /%)*6' & *' -*#"2*' #-' / - " "4
' #' *' B*2*' "#')/*' B"2(6!')/*' B"2(6'
B"4(6'("5*' /'+' "B1' -4)' -*<%4+*' *' %2*;'
1")' "#')/*' B"2(6!' -4)' ' /%5*' </"+*1' "4

"4)' "#')/*' B"2(6!')/*2*#"2*')/*' B"2(6'/%)'
*)/' "4' .
' * & * & -*2')/*' B"26')/%)' '+%'6'41)"
"4!' F' /*' +*25%1)' '+' 1")' 02*%)*2')/%1' /'+';' BK' +'
("26' #')/*' /%5*' K*2+*<4)*6' & *!')/*' (%'
B'((' %(+"' K*2+*<4)*' "4'$' '#')/*' /%5*' .*K)' '
& '+% '10!')/*' B'((' .**K' "42+'%(+"
' 4)' % ')/*+*')/'10+'B'((')/*' '6"'41)"'
"4'#"2' & '1%& *+'+%.*!'-*<%4+*')/*' .1"B'
1")' /'& ')/%)' +*1)' & *
' #' /%6'1")' <" & *' %16'+K".*1'41)"'
)/*& !')/*' /%6'1")' /%6'+'1' ' -4)'1"B')/*'
/%5*'1"' '<(".*'#"2')/*'2'+'1
9?' *')/%)' /%)*)/' & *' /%)*)/' & ' %)/*2'
%(+"
9C' #' /%6'1")' 6"1*' %& "10')/*&')/*'
B"2.+'B/'</'1"1*' ")/*2' & %1'6'6!')/*' /%6
; 1")' /%6'+'1' ' -4)'1"B'/%5*')/*' -")/'& *' %16'-%)*6'-")/'& *' %16' & ' %)/*2
9:' 4)' -/#$,!& -/-!* $$')/%)')/*'B"26'
& '0/)' -*' #4(#'((*6')/%)' '+' B2'))*1' '1')/*'2
(%B!' 7P /*' /%)*6' & *' B')/"4)' %' <%4+*' #K)++ 'K
9E' F' 4)' B/*1')/*' "& #")2)*2' '+' <" & *!' =</+K'4'
B/"& ' B'((' +*16'41)"' "4' #R;"& ')/*' %
)/*2!' 0 ')/*' K'2')' "#')24)/!' B/'</' K2" ' P' F
<**6*)/'#2" & ')/*' %)/*2!'/*' +/%((')*+)'#'
"#' & *

/ / ' T ' 3 ' /'7*/' &)3' % &0' &0' /*$F' 625'56 '+49'7A 16'
9' B> 31 ' 422 1@' 54' 94)' 829' 345' ; ' @ 8 6 @' 3' 9' 2;D
31 '.' 4>' A)' 5625' 829' 2A729 ' 62: ' > 2 43' 54' > +4 1 ' 3' 94 '
$. % +
/F' T ' 7V 3/' '3' ,' /*$+BN ' 2>' 54' 8 525' 56 'A4: ' 4% 6> 5
5B)2' %2>' 2' 56 ' :2 5@ % 1' ; 57 3'#4@ 23@ 823' 32;A ' '
54 @4 4.' 23@ 7 ' 2>' 54' 5>' 4 > A: ' 54' 8 5 2A 162>59)' ;9' 5625'
5>43?4;A ?25 43' 54' 5' 76 16' 56 ' ?44@ 7 AA' 4% 6> 5' 54' 53C 4 '
43' : >9' 143 @ > 3?' 6> 523' 0' 03*- +
>' L 0*' %' 0 ` ' 4' 7 64 8' 56 ' 8 2 5 >' @4 ' 345' 2AA9'
8 2< ' <347 3' 6 ' 14 3 A)' B >B4)' 23@' 35 35 43 ' %+' ! E
*0,' 9' & 5' 62: ' 12AA @' 94 ' %> 3@ .I' ' 62:=' 5> 25 @' 94 ' 3'
56 ' 8 4 5' %> 3@A9' 23@' 2%% 15 4325' 8 233 >)' 3 5> 15 3?' 94 ' 8 4 5'
BA2 3A9' 3' 2AA' 56 3? ' 3 1 2>9' %4>' 94 >' 2A:25 43 ' -' 5 00+
D' + ' 3 ' ' 0*' .3* 0' ' 4$' 'Q1 ' ' 8 2@ ' 164 1 ' 4%' 94)'
7 564 5' 56 ' 3?2? 8 35' 4%' 239' 235 1 @ 35' 2%% 15 43' 4%' 94 > ' 54'
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3 ' 4%' 9' 8 >21A)' 23@' ?A4> 4 ' 3 5> 8 35 ' 4%' BA235 3?' 23@'
52;A 6 3?' 2' 6> 5 23' 6 >16)' 54' A2 5' 5 AA' 56 ' 3@' 4%' 56 ' 7 4>A@' '
'4>' 56 ' 11 ' 4%' 7 6 16' ?> 25' 74><)' 7625 : >' 62AA' ; ' 3 @% A)'
#4@' 7 AA' ? : ' 5' 54' 94 >' B>29 > ' B 5' B' 3' 9' 328 ' 0'
03*- +
' '/X 6 %' * ' 3 ' 6*%(,' 3 ' '*%(,' Q *' %' 9 ' %A255 > @' 8 3'
3' 56 >' 3)' 23@' 52 ?65' @415> 3 ' 143 5 35' 7 56' 56 >' A 5 ' 23@'
B2 43)' 7 4 5' G 5 43' 56 ' 74>A@' 7 4 A@' A4: ' 23@' 6434 >' 94 K
; 5)' 31 ' ' 62: ' 164 3' 94 ' 4 5' 4%' 56 ' 74>A@)' 54' > B>4: ' 5 ' : 1 '
23@' 54' 5 216' 56 ' 3 1 59' 4%' 8 3- ' 1435>4AA 3?' 56 >' A 5 ' 23@'
28 3@ 3?' 56 >' A:)' 5' ' 345)' 54' ; ' 743@ > @' 5625' 56 ' 74>A@'
64 A@' B > 1 5 ' 23@' 625 ' 94 ' %+' +' (%8 +
F ' T ' & ' 3 /' 3 ' ' 8 - ' Q1 R' %' 56 9' 62: ' 6 73' 2' ?44@' @ B4D
5 43' ; 9' < B 3?' 9' 74>@)' 56 9' 7 AA' 2A 4' 6 7' 56 ' 28 ' @ B4D
5 43' ; 9' < B 3?' 94 > ' 4-' 6.* +
F/' FF' T ' 4. $ ' 3 /' 80*6' 0*' 3& ' Q1 R' 6 ' 56 >' ; 62: 4 >'
' 56 ' %% 15' 4%' 56 >' 345' 255 3@ 3?' 54' 56 ' 148 8 43' 7 56' 76 16')'
' 148)' 34>' 56 ' : @ 31 ' 4%' 5' 6 ' 62: ' ; 3' %2>' B > 4 >'
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56 >' 3% @ A 59' @4 ' 345' B>41 @' %>48' ?34>231 =' ; 5' 7 A% A' 4; 5 D
3219' 23@' ;A 3@3 ' 0' 03*- +

' T ' 3 ,' 0*' 3 ,' &0' R 6 ' B 1 A 2>' 3' 4%' > + 15 3?' 56 ' D
26' %+' &)3 ** +
FN' T ' 4* 3' 0' 0,' 3 ,' 4* 3' ' 0,' /' W (3 %+A7' 3 ' 82A 1 '
6 73' 5472>@ ')' 764' 28' 2 564> U @' 23@' 62: ' ; 3' 56 ' 8 D
3 35A9' 255 5 @' ; 9' #4@)' @4 ' 345' 5 >8 325 ' 3' 9' B > 43)' ; 5' '
@43 ' 54' #4@' 8 A%' 0' 03*- +' A
F0' T ' 3& ' .* 3' *' - ' 3 ' Q1 +' 2376 A)' 5625' B>4B6 5 1<'
148 BA2 35' 4%' 2: @' ' C C' NE' 3 : >' 72 ' 4' ?32AA9' % A% AA @'
2 ' 43' 56 ' 4112 43 ' 0' 03*- +
D' L '63 0' &8 ' * *% %' & ' .* B' 345 ' 25' 162B ' C : ' +
' 63* ' ' 6&(' 0,' $% */*$' %* ' 3 'W* 3 % =' : ' ' 4>@' 62@'
; %4> ' 2 @' 25' 162B 'C : ' ' 9' ' 7 AA' B>29' 56 ' ' 256 >)' 23@' ' 62AA'
? : ' 94 ' 23456 >' 4 8 %4>54-I' ' > %4>)' 764' 3' 43 ' 12B21 59'
B>29 '5625' 56 ' 4 8 %4>5 >' 8 29 ; ' 35)' 3' 23456 >' '56 ' > 43' 764'
3@' 8)' ; 3?'+@+ @' 3' 2 564> 59' 23@' B4 7 >' 7356' 56 ' ' 256 >'
H' '23@' 56 ' ' 256 >' 2> '43 \' + 9' 2> '56 ' B2 2? ' 4%' 56 '< 3@'
3' 1> B5 >)' 7 6 16' 123' 43A9' ; ' CBA2 3 @' 23@' > 1431 A @' ; 9'
5625' ?> 25' 6> 5 23' @415> 3 ' 7 6 16' 4 >' 6 >16' 8 2 352 3 ' 143D
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4 8 ' BA21)' 56 ' B > 5' 4%' 56 ' ' 256 >)' 255 'C ' F .' 3' 456 >)' H' 56 '
B > 5' 4%' 56 ' 43)\' # 2A' : ' M.' %4>' ' B>41 @ @' %>4 8' ; 456 ' -'
! * +
T T ' 63&.3' -%*. , 3' %* ' 3 'W 3 % ' 2> ' 6 > ' CB> A9'
54A@' 5625' 56 ' 4A9' B > 5' B>41 @ 56' %>4 8' 56 ' ' 256 >K' 23@)' 2 '
6> 5' 29 ' 3' 56 ' 28 ' : >)' ' 7 AA' 3@' 56 ' B > 5'+I' 23@' 5'
2 A' 5 AA ' 56 ' # 2A25 23)' # 2A' : ' M)E' 5625' H' # 4@' 6256' 35%4>56' 56 '
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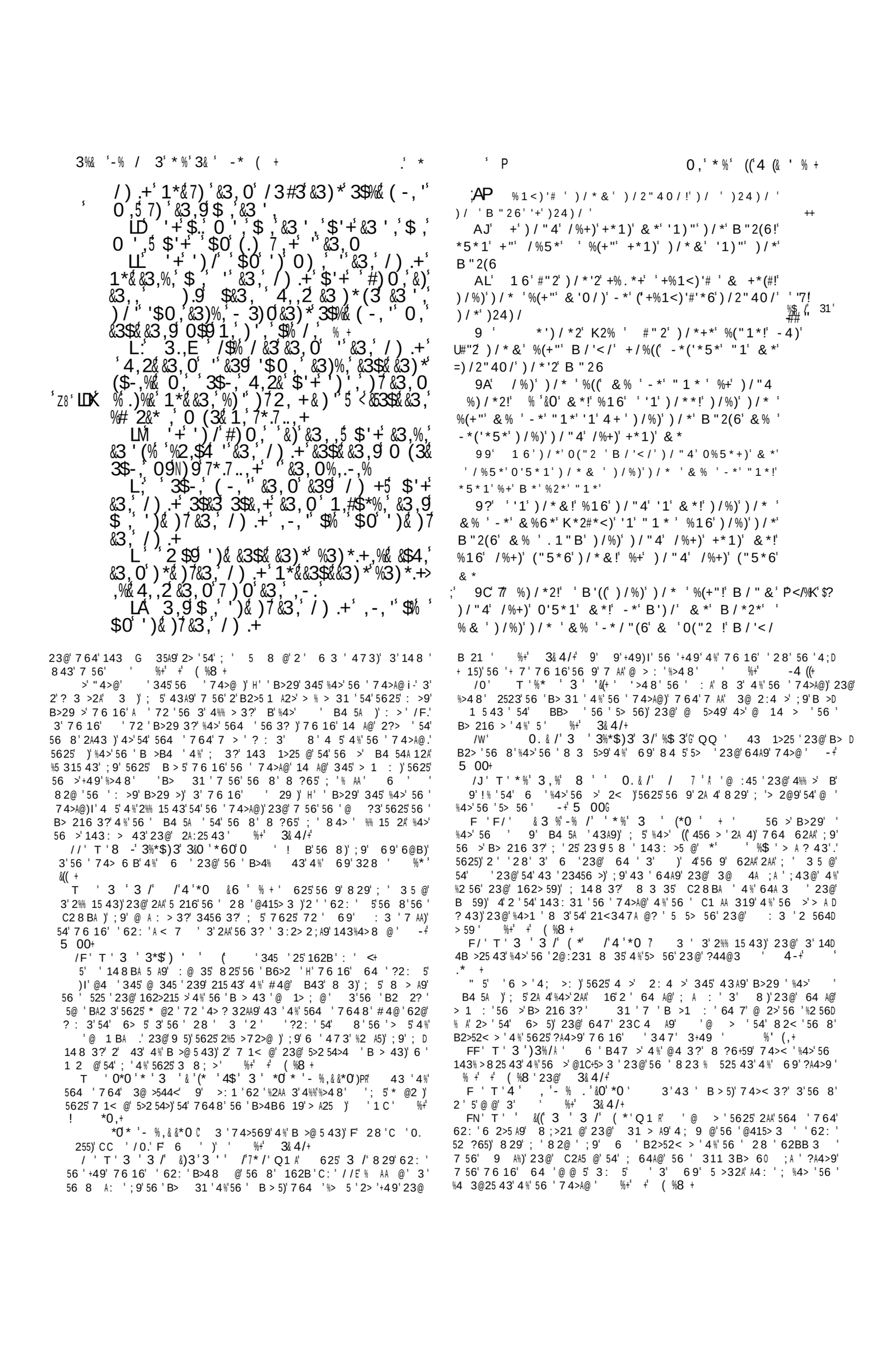
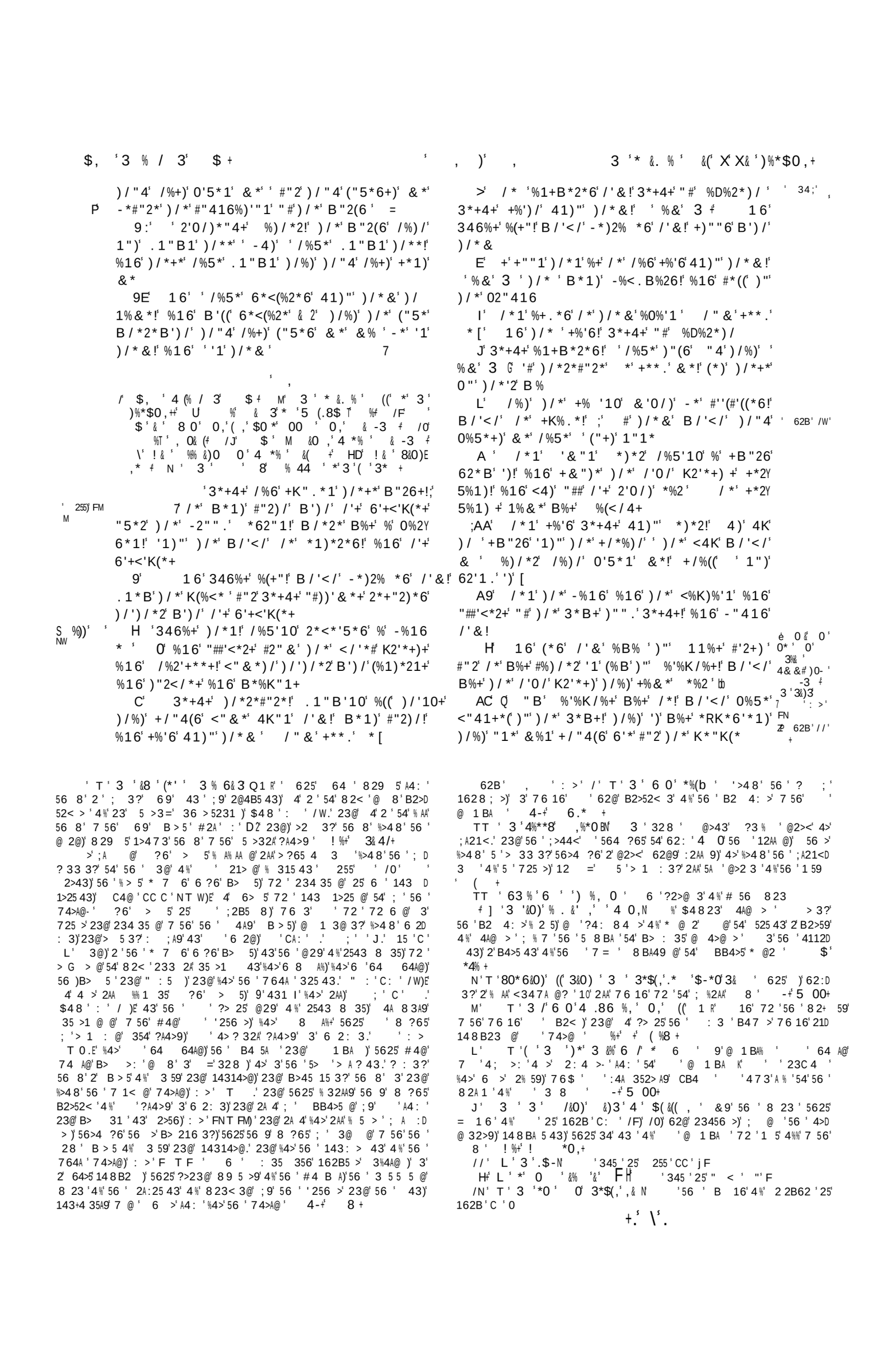
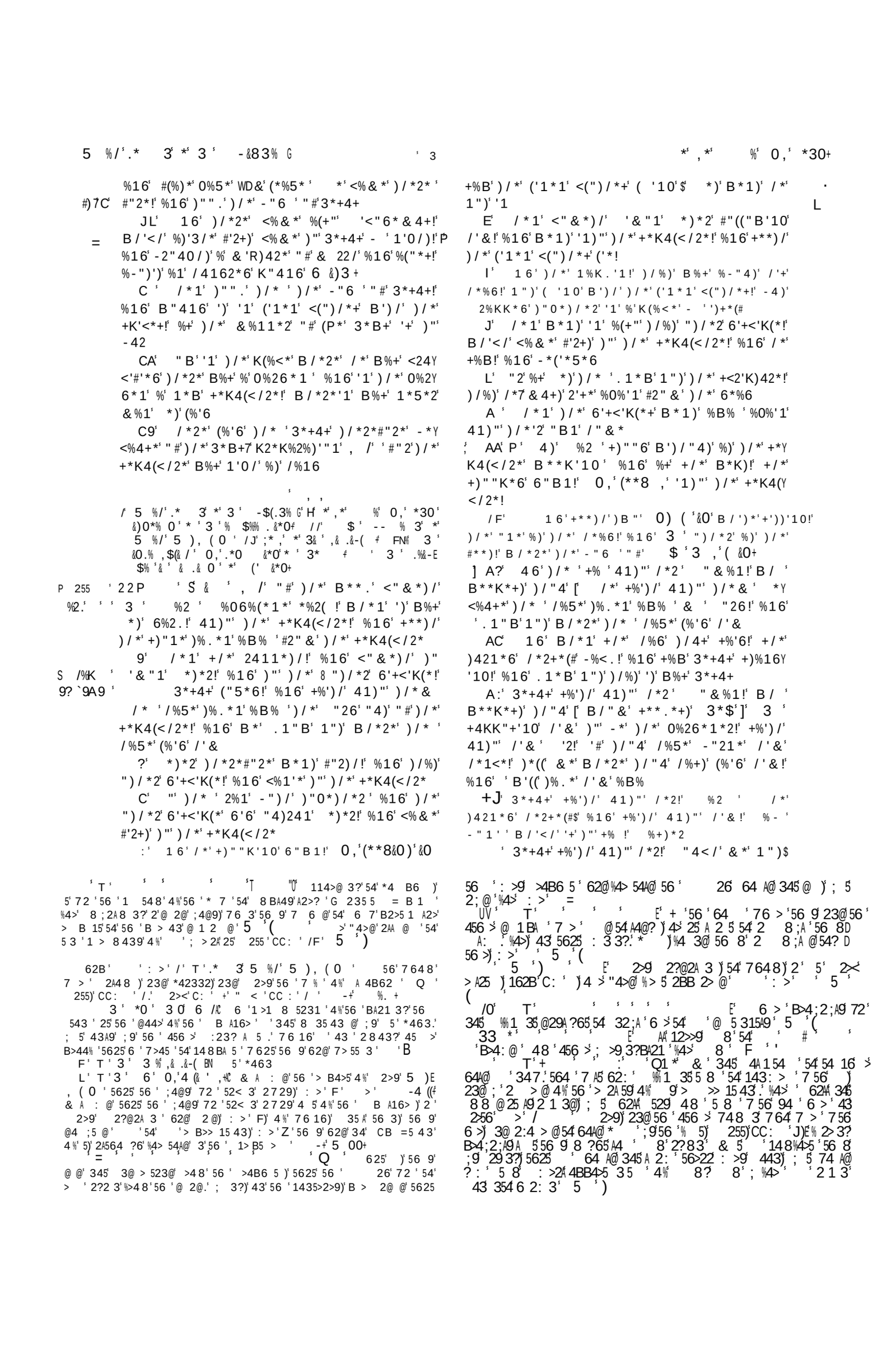
B>41 @' %>48' 56 ' 4)' 7 564 5' 25' 56 ' 28 ' 5 8 ' B>41 @ 3?' %>48'
56 ' 456 >' 31 ' 56 ' >5 1A ' 4%' 4 >' 6 >16)' 23@' 56 ' 1 3 '
> @)' B 2<' 4%' 56 ' 4A9' # 64 5' 2 ' B>41 @ 3?' %>48' 56 ' ' 256 >'
23@' 56 ' 43' -' * (&0 +
6)' 23@' > A239' 456 >' B2 2? ' 4%' 56 ' 7' 528 35)' 4'
BA2 3A9' 23@' : @ 35A9' 143% > 8' 56 ' @ 5 315 43' 4%' 56 ' 4A9' # 64 5'
%>48' 56 ' 456 >' > 43 ' 4%' 56 ' > 3 59)' 5625' 34' 823' 123' B4 ; A9'
@4 ; 5' 56 > 4%)' 3A ' 6 ' 7 AA' ; A2 B6 8 ' 56 ' : >A2 5 3?' 5> 56' 4%'
4@-' 74>@' 3$%.3' ! * &(& +





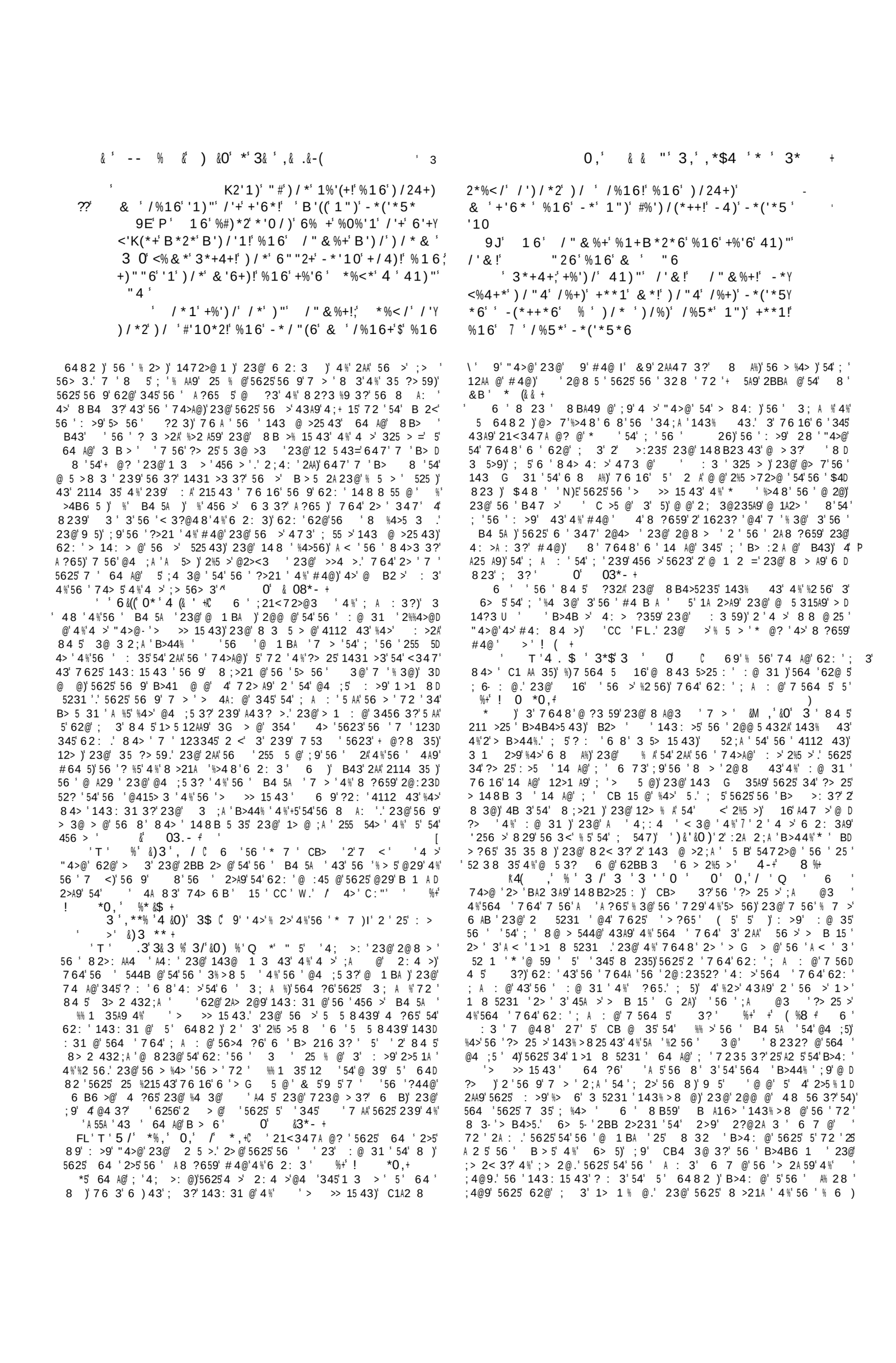


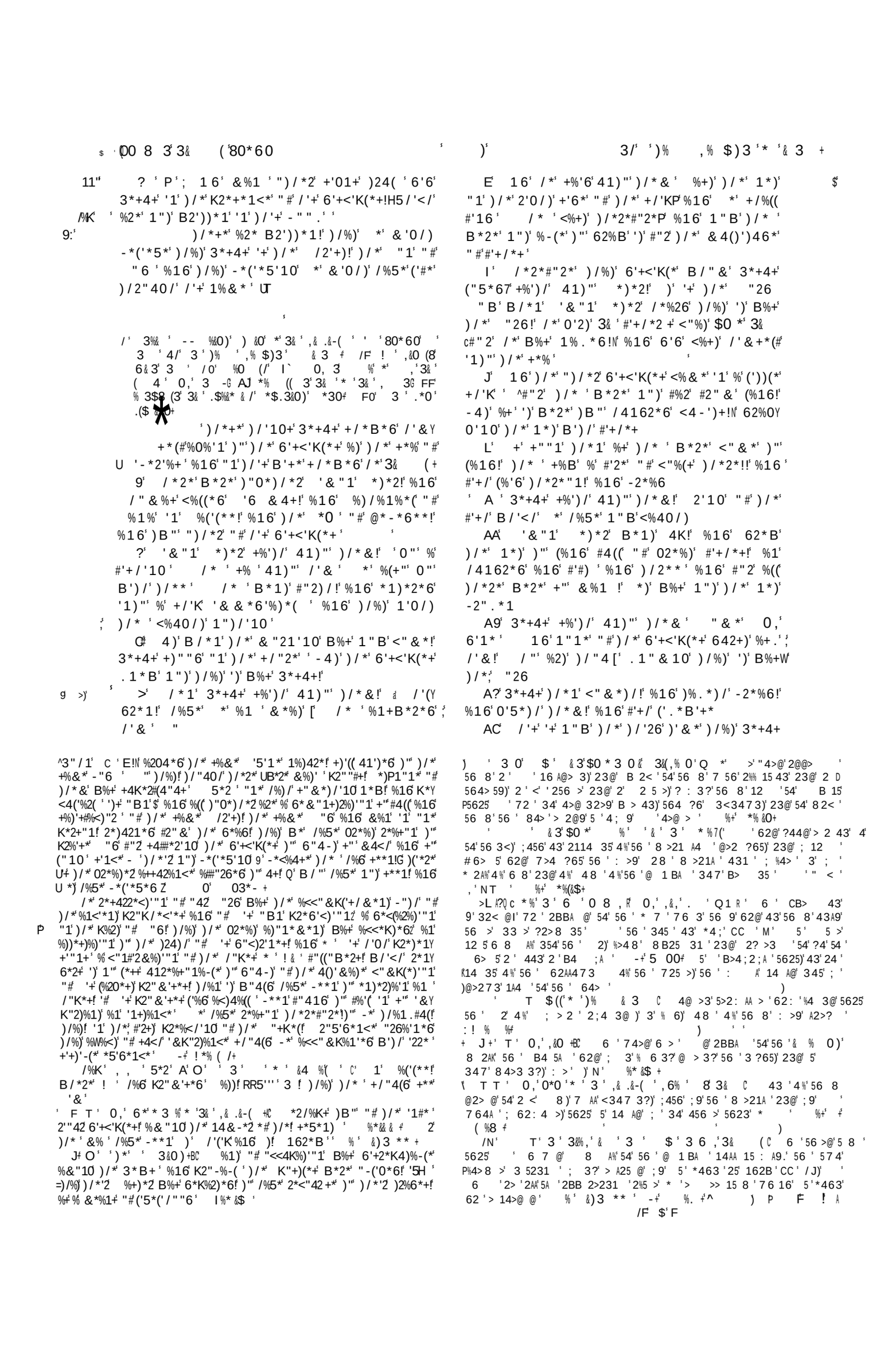
Painted by Daniel de Volterra. *Engraved by George Cooke.*

THE BODY OF CHRIST TAKEN FROM THE CROSS.

John C.19.v.38.

London Published by the Society for promoting Christian Knowledge Nov.1.1815.





3%& S '% - ,'.3 %) ' *' # % ' *' ' ! T*% ((&3'3& '* '3& ', 3+

3>7: ' 6 8 A%'54' 6 '@ 1 BA)' 2%5 >'5625 Y' 6 '72 '> 3'%>48'56 '@ 2@)

;A:'P' "'B/*1')/* '/%6'6'#)*6!'3*+4+'+%')/')"' '&"1' *)*2!; '&"1!'+"[' "#'3"1%+!'("5*+)')/"4' &*' &"2*')/%1')/*+*'[*'+%')/'41)"' /'&!' *%!' "26')/"4'.1"B*+)')/%)' '("5*')/**' *'+%')/'41)"' /'&' **6'& '+/**K' AE' *'+%')/')"' /'&' %0%'1')/*' +*<"16)'&*!' '&"1!' *<& "#'3"1%+!'("5*+)')/"4'&*[' *'+%')/'41)"' /'&' *%!' "26'$')/"4'.1"B ; *+)')/%)' '("5*')/**' *'+%')/'41)"' /'&' **6'& '+/**K' AI' *'+%')/'41)"' /'&')/*')/'26')'&*!' '&"1!' *0' "#'3"1%+!'("5*+)')/"4'&*[' *)*2' B%+' 02'*5*6'-*<%4+*' /*' +%'6'41)"' /'&')/*')/'26')'&*!' "5*+)')/"4'&*[' 16'/*'+%'6' 41)"' /'&' "26!')/"4'.1"B*+)' %((')/'10+')/"4'.1"B*+)')/%)' '("5*')/**' 3*+4+'+%')/' 41)"' /'&' **6'& '+/**K AJ' *2'(!'5*2'(!' '+% '41)"')/**' /*1')/"4'B%+)' "410!')/"4'0'26*6+)')/ +*(#!'%16 B%(.*6+)'B/')/*2')/"4'B"4(6*+)'7-4)'B/*1' !')/"4'+/%()'-*' "(6P!')/"4'+/%()!'+)2*)</' #"2)/')/' /%16+!'%16'%1")/*2'+/%((' 0'26')/**!'%16' <%22 ' 3 'B/')/*2')/"4'B"4(6*+)'1") Ú ' /'+' +K%.*' /*!' +'01'# '10' - 'B/%)' 6*%)/'E*'+/"4(6'0("2$# ' "67' 16'B/*1' /*' /%6' +K".*1')/'+!' /*' +%')/' 41)"' /'&! "((B'&* 9 ' /*1' *)*2!')421'10'%-"4)!'+**)/')/"' 6'+<'K(*' 9'B/"&' 3*+4+' ("5*6' #"((B'10' 0'21!'<! B/'</'%(+"' (*%1*6' "1' /'+' -2*%+)' %)' +4KK*2! %16'+%'6!' "26!'B/'</'+' /*')/%)' -*)2% *)/')/**' [=

9A' *)*2'+**'10' /'&' +%')/')"' 3*+4+!' "26!' %16'B/%)' 3 ((')/'+' &%1', *'] 99'3*+4+'+%')/'41)"' /'&!' #'A'B'((')/%)'/*')%22 ')'((' '<"&*!'B/%)'&' 3 ')"')/**' [#"(Y ("B')/"4'&* 9?' /*1'B*1)')/'+'+% '10'%-2"%6'%&"10')/*' -2*)/2*1!')/%)')/%)' 6'+<'K(*'+/"4(6'1")' 6'*' ' *)' 3*+4+'+%'6'1")'41)"' /'& ' *'+/%((

/0' T'(*' ' 3*$' ' *%' 3&0' 3 ' 4>'5623'56 ' 9' @ 1BA '@4)'764'2>'6>'B> 35' 6> 5-'74>@'829'56 ';' 35 >B> 5 @T 64 '@@5' 29'54')'43'56'3?65'76 3' '72' ; 5>29 @' A564 ?6'2AA' 69'@ 1BA ' 64 A@'%4> 2<' 6)'9 5'7 AA' 345' .' '7 3'A:'23@'@ '7 56' 6 .' 76 16'72' 3' %% 15'54'B> D 5 3@'5625'564 '@@5'A4:' '84>'5623'56 9'.' 23@'347'564 '62 5' 62 5 3 @';%4>'56 8'2AA'54'148 '54' '56>4 ?6'56 ' 2.' '2 <' 56 '56 > %4> ' 4 5'564 ' 3@ @'A4:' ' 84>'5623'56 ' 9' @ 1BA 'A4:' ' %+' *% &0+ 3*$'3&* ' 3 'i'(*' ' 3 +J' '74 A@'345'B> 8 '54 29)' A4:' 6 '84>'5623'56)'%4>'6'>8 8;>@'6'473' %4>8 >'7 2<3 .';5'6'2%A >8 @'5A 25'6'@@' 3@ @' 31 > A9' <:' 6> 5' %+' *% &0+ /M'T''@' /' 3* -' CB> '569'A4:'54' ';9'569'12>'4%.' 56'%A41<'1488 55 @'54'5d'162>? ' %+' +' (%8 +A 48'B>43'62:'2>? @'%>48'56 '74>@'4%'4 >' 2:4 >)' 3' %2:4 >'4%'56 ' B> 8219'4%' 5' 5 >'2;4:'56'>5'4%'56 ' B4D 5A ' & 5' 16'23'4B 3 43' '2A54? 56 >'?>4 3@A ' '4>)' %'4 >' "4>@' @'56 '74>@'7 56'56':' 7'4%'148 823@ 3?' 5' 5 >'54' % @'2 ' ' 6 B'23@'A2 8;'7 564 5'239' C1 B5 43)' 5' '1 >52 3' 5625'6'72'7235 3?' 3'6'@ 59)'%4>'6'3:>' C >1 @' 239'215' 4%' B> 8219'4:>'56'>5'4%'56 ' B4 5A .' 43'56'1435>2>9' 76 3' 35';9'56 8)'6'4;9@' 15':' /N.' 2?@)'76 3'>B>4:@' ;9' 5' 2 A)'6'6 A@'6 'B 21 .' 23@'72' / %>48'% @ 3?' 2AA' 56' 6 B'4%' 6> 5)'5625'6'3:>'%@'239'4%'56 'B>4:31'4%' 5' 2 A' %+' 3&3/+ ' T' %'6 ')%& ',' ,'4. '3' &,'"0*'3& '3'3&%,'& ' Q1+' '72'?>:@'25'56'56> %4A@'>B 55 43)'76 16'A44<@' 2' %' 6> 5'@ 5> 5@'6 ' 31 >59)'4>'%4> 27'6 '%2AA 3?' 431' 84>'%>48'6'@ 59.'23@'56 >%4>'6'347'23 7 >@'7 56'?> 25 >' % >:319' >'"4>@'6>'143:9@' 2'>;<'%4>'6'56> %4A@' @ 3 2A'4%'6 ' 2 5 >)'23@' 5' 5 >'14 A@'345'%2 A' 4'54' 3@ > 523@' 5.';5)'564 ?6'6'72'@ G 5@'23@'2%A 15@'25' 5)'9 5'6' 27' BA2 3A9'5625' 5'72'345'56'23?>9' B;>2@3?'4%'23'4%% 3@@' 2 D 5 >)'764' 35 3@@'54'52<'2'%3@'A 2:'4%'23'4A@' >:235)'23@'54' 8BA49'6 8'34'84>'.' ;5'5625'5'72'2' 84 5'?35A)' 3@> 15'> D B> 823@)'8 C@'7 56' 8 16'5 3@ >3 '23@'<3@3)'23@'2' >' 3@125 43'5625'6 '%2AA'72'%4>?:3'6 8)'23@'5625'6'72'>3D 525@ 3'% AA'%2:4 >'23@'5> 5)' 31'6> 5'345'O A9'56 ' 3G > @' 354'56 ' 31 >59'4%'6 'A4:)';5'A2@' B43'6 8'2'56> %4A@'148D 823@'54'% @' '%A41<' >' *% &0+ /L'T'&#8 0' 3*$' '/*$0)J' 47'76 3'564 '2>5'94 3?.'' 5625')'215)'23@'148B2>25:A9'345'4A@' 6 >' '23'2AA 43' 54'7625'62@+ 5'62BB 3@3'5' 5 >-'2? >3 '54'148 '54'4 >' 2:4 >)'23@'?>@3?'6 8 A%'54'72A<'56>4 ?6'56 ' 2' -%* &$ + T T'3*$'3 3' % .3'*% 3'3/'3 0,'Q1 ' 64 '62A5';'?>5' 23@';4 3@'2?2 3 5'569'7 AA)'23@'7 56'569';23@' 5> 516 @'4 5' 62A5';'%2 5 3 @'54'56'1>4 ' 6)'2114>@ 3?A9)'62BB 3 @'54' 5' 5 >'2' 64>5 5 8';%4>'56'@ 5> 15 43'4%'* > 2A 8)'23@'2;4:' 5A >59'9 2>'2%5 >'56'5 8 '76 3'56 '72' B4< 3)'3'56 '> ?3'4%' >4' -+' 5 00+ '`T'4/'63 ', 3'3' 3*$(,')(*%& /' #4@ R 64 A@'%32AA9' %% >'8 2>59>@48'%4>'56 '?A4>9'4%'#4@)'23@'%4>'2'5 5 8439'4%' 56'5> 56'4%'56'> A?43'4%' 6> 5' %+' +' 3 8 T T'W*((* '' +J' 625')'564 ' 62A5'%4AA47'5 ' 3' ; %% >3?)' 2';%4>'564 '@@5'3'@ 1BA 6B' %+' ! *0,+ F'T' 3'3',&.&-('63* 'Q1+' 23 3?' 5'*463'6 8 A%a X'L' ' '6&0' 3 '3' %%/'Q1'*' * '@@'345'56 3<'%5'54' 2D 5 %9' 5' 5 >-'1 >4 59';9'2'@ > 15'23 7 >)'6 5'> 5 >3 @'23'23 7 >' 76 16'> 5>2 3 @' 5 ;9'148 823@ 3?'6 8'54'A44<'7 AA'54'56 '@ D 162>?'4%'6 '473'@ 59)'7 564 5'5>4 ;A 3?'6 8 A%'> B 15 3?'56 '%25'4%'456 >)'76 16'72'34'B2>5'4%'; '1431 >3' 0' 03*- + '&((' 'X* J 23 3?)'5 AA' '148 '54'@ 5>49'56 '1 59'23@ 325 43'4%'56 '* 7 ' %' &)3 ** +' T '63 '&' 3 '*' 3 ']',(*6'3*$' +' ' %'! '3 ,' &,+ 3 5 2@'4%'; 9 3?'569 A%' 3'564 '3G > '76 16'2>' ; 943@' 569'B6 >)'23@'@4'345'; A43?'54'56)'4; 9' 9'B> 1 B5'23@' 8 D 525' 9' C28BA)'23@'56 3'564 '7 A5';' > '4%'@4 3?'>?65)'%4>' 569'764A'@ 59'143 5' 3'56)'23@' 3'3456 3?' A ' 0' $.8 %+ 6 '3G >9'4%' 5' 5 >'72'3341 35)'23@'56 >' '34'>2 43'54' BB4 '5625'4 >'"4>@'72'23?>9'7 56'3& ' *%' 82<3?'5)';' 5' 72'7 AA 3?'54'52<'56+'4BB4>543 59)'2114>@ 3?'54' 1 548'43' 456 >'4112 43)'4%'31 A125 3?'43' 5' 5 >'6 '473'@ 59)'23@'4%'@ ' 14 >2? 3?'3 @A '1 >4 59'2;4 5'56 '2%%2>'4%'456 >'8 3' 625' 72'3341 35' 3' 5' 5 >' 3'56 'B> 35'12)'23@'8 29' 3'3 8;>A ' 3 5231 ';'3341 35' 3'239'823)' '9 5'2' 8 255 >'76 16'8 29'?>47' 354'2':1)'23@)';9';148 3?'2'62;5)'8 29'A 2@'54'56 3?':>9'@ D 5>8 352A'54'2'>?65'5 8B >'23@'@ B4 5 43'4%'8 3@' %+' +' (%8 + F' 3 0'6 0'3&' /&0)'Q1R' '>48'56 '28;?4 ' 8233 >' 4%'4 >'"4>@-' CB> 3?' 8 A%)'48 '4%'56 '@ 1BA ' 82?3@' 5625' 5'*463'74 A@' 3 :>'@)';5';'%4 3@'28 43?'564 '5625' 74 A@';'2A:=25' 6> 5-' 143@'148 3?' ' /4>'C:'0/)0F.' / 6 ':'/W' 6 >2'56'>2A'8 23 3?'4%' '74>@')'5625' 56'@ 1BA' 4 A@' >::'56'@ 5> 15 43'4%'* > 2A 8)'76 16' 3':2>4 B2 2? '4%'1>B5>' '12AA @'56'148 3?'4%'4 >'"4>@)' ;3?'2'84 5' 8 3 35'+ @?8 35'23@' :@ 31'4%' '5> 56'23@ B47 >' ' 255'CC:'FW)' W' 0' 03*- 5'*463)'A:3?'5 AA'56 '> ?3'4%'>2+23)' >::@'556'148D 59'* ' 6> 5I'25'56 '@ 52> 5+43'4%'* > 2A 8'56 >59'9 2>' %+' ! *0,' ' ' b

%4>5 5 @ ' ' @ BA29 @' 3@ >'56 'GC4 5' C1> 1 25 3?'54> 8 35 .'56 ' ;A 8 59'23@' 8B4>5231 '4%' '@415> 3 .' 56 '143 8 8 25 '7 D @4 8'23@'B > 59'4%' ' 8 4>2A'B> 1 B5)'%2>' C1 @ 3?'56 '325 >2A' B47 > '4%'2' 8 23' ;4 8' 3'56 '6 8 ;A 5' 5 25 43)'23@' 3' 2' > 8 45 ' 23@'4; 1 > '148 >'4%'56 ' 74>A@)'7 564 5'A 2>3 3?)' @ 125 43)'A23D ? 2?)'4>' ;44< ' " 5' '143 @ >)'% >56 >)'56 '8 3 5 '@ 1> B5 43' 4%' = '56 ' 8 4 5' 8 25 > 2A' 1 >1 8 5231 '4%' ' ; >56)'A %)' %% >D 3?)' @ 256)'23@' > >> 15 43)' ? : 3' ; 9'56 '231 35' >4B6 5 ' 8 239' 6 3@> @' / % ' ; %4> ' ' 72 ' ; 4 8)'23@' C215A9'% A% AA @' 3' 8)' 23@' 8 ' 4 3 A9 .' 56 ' 8 239'2 543 6 3?' 8 >21A ' 7 >4 ?65' ; 9' 8 ' 3'56 '4B 3)'%21 '4%'@29)' ; %4> '564 23@'4%' B 15254>)'56 '> 2A 59' 4%' 7 6 16' ' B>4: @' ; 9' 8 A5 5 @ ' 4%'56 ' 8 4 5' 3 C1 B5 432 ; A ' 7 53) =' 7 64' 2A @' 56 >'5 5 8 439'7 56' 56 >' ; A44@)' 23@' 72 ' : 3' 21<347A @? @' ; 9'56 ' 2>A 5' 23@' 8 4 5 3: 5 >25 ' 3 8 '4%' @ ' #4 B A' ; 4 : '2AA)'A 5' '143 @ >'564 '574' 8 4 5' > 8 2><2 ; A ' 411 >> 31 ' 3'56 '6 54>9'4%'4 >' "4>@)' 7 6 16' 2> ' 2A43 ' % 1 35' 54' 52 ; A 6'56 '@ : 3 59'4%' 'B > 43)' 23@'4%' '> A ? 43 .' ' 8 23' ' 743@ >% A' B> @ 15 43' 4%'56 '@ 5> 15 43'4%' * > 2A 8' ; 9'56 ' $4 8 23)' 7 56' : >9' 8 3 5 '1 >1 8 5231 ' 255 3@ 3?)' 5 .' 23@' 5625' 2 543 6 3?' 23@' 7 AA' 2 56 35 125 @' 8 >21A ' 4%' ' > >> 15 43 ' 6 3' 7 'A29'2AA'56 '56 3? '54? 561>)'23@' 7 ?6'56 8'@ A ; >25 A9' P23@' 8 B2>5 2AA9)'4 >' 8 3@ ' 8 5' ; ' %4> 8 @' 3' 2' : 9' B 1 A 2>' 8 233 >' 3@ @)' %' 56 9' 2> ' 345' 8 4 5' 564>4 ?6A9' 8 B> @' 7 56' %2 56' 3'56 ' 43'4%' #4@)'23@' 56 ' #4 B@' 7 6 16' ' 52 ?65' -+' *% $ ' ' P ' ' 123345' ; 5' 4 ; >: ' 3' 4 >' 2: 4 >- ' ? 3 >2A' @ 8 234 >' 2' P >B> 3?' 8 C5 > ' 4%' 6 8 A 59'23@' ?> 253)' @ ?3 59'23@' A% ' 2 ; 2 8 35) ; 456'4%' 7 6 16' 7 > ' G 2AA9' 3 5> 15 : ' 3' 56 >' 5 >3 ' 18 5 3 '7 '%3@' 8' 4A 8 3A9'2 >5 3?' '@ : 3 59)' 25'456 > ' 56 ' 8 < 5' 23@'56 ' A47 5'4%'56 ' 43 ' 4%' 8 3K' 48 5 8 ' > D 8 3@ 3?' '%4AA47 > '5625' '14 A@' 148 8 23@'A ? 43 ' 4%' 23? A)' 7 > ' 5' 3 1 2>9.' 25' 456 >' 5 8 '2BB> U 3?'56 8' 5625' ' 64 A@' ; ' 8 4> '@ 5 5 '5 '4%'148 843'143 : 3 31)'5623' : 3'56 ' ; 2 5 '4%' 56 '% A@)'4>' ; >@ '4%'56 '2 >2' 347'5 AA 3?'56 3)'5625' 2' ?> 25 >'5623' 4A4 8 43' '28 43? 5'56 8)' 347' 72 6 3?' '@ 1 BA -'% 5K' 143D 1 4 '4%' '47 3'B47 >'23@'+ 5' B> >4?25 :)'9 5' 2AA' ; 8 43' 54'56 'B47 > ' 3' ; 3?.' 148 BA9 3?' 7 5A ' 56 >' A2 7 '23@' 3 5 5 D 5 43)' 647 : >' 62U2>@4 ' 4>' 3143 : 3 35' 54' 8 .' 23@' B29 3?' 56 >'@ 823@ '54'56 ' 55 >8 4 5)'564 ?6' 25'56 ' CB 3 '4%'2' 8 >21A K' 43') 48 ' 4112 43 ' B ; A 6 3?' 56 ' 162>215 >' 23@' 4%% 1 ' 7 6 16' ' ; 4> .' 43' 456 >)' 12> % AA9' 1431 2A 3?' 56 8)' 3' 4>@ >' 54' B> : 35' 56 ' 62 59' 8 143 5> 15 43' 4%' '%> 3@)' 54' ? 2>@' 2?2 3 5'56 ' 3D : 5 >25 ' 8 2A 1 ' 4%' ; '%4)' 23@' ?2 3' %% 1 35' 5 8 ' 54' % C' 2' ?44@' %4 3@25 43'%4>'56 '%2 56' 4%'5@A ' 43 ' 7 2 ' 8 4> ' 3@ 5> 4 '23@'U 2D A4 ' 3'56 '12 '4%'#4@.' 343 ' 8 4> ' 3@ %% > 35'23@'> ?3 @' 3' ; ' 47 3.' 'B25 35A9' 3@ > '56 '2%%>435 '23@'4 5>2? '54' 'B > 43)' 23@'56 '%> G 35' 3 A5 '43' '> B 525 43)'23@' 35 >1 @ '%4>'56 ' %4>? : 3 ' 4%' ; ' 8 >@ > > .' 9 5' 76 3' ; ' '256 > ' 6434 >' ' 1431 >3 @' ': 3@ 125 ' 5' 3 5235A9)'23@' 7 56' 3148 843'72>8 56.' 'B ; A 1<A9'162 5 '56 'B>4%23 > '4%' ; '5 8 BA)'23@' 56> 25 3 ' 56 ' : > 5'B 3 6 8 35'54' 16' 2' 64 A@' 1435 3 '54' ; A2 B6 8 ' 56 'B47 >' 23@' B > 5' ; 9' 7 6 16' '72 ' 215 3?' ' ' > 2@9'54' > 1 : 'B ; A 123 '23@'62>A45 .' @ @2 3 '345'54' 143 : > '7 56'6 > ' 5 1< '23@' 16 8 25 1< .' B > 43 ' 8 4 5 4@ 4 '23@'4%' 74> 5' > B 5)' ; 5' 7648' ' '54' ; '5> A9'B 3 5 35)'23@' > 2AA9'@ >4 '4%' 3D 5> 15 43'.' 7 6 A ' '> + 15 '56 ' %4> 8 2A' 2315 >24 > 4 ' 69B41> 5)' 23@' > B> 8 23@ '56 ' A% %% 1 35' 62> ' @ 5 15)'23@'7 56' 2 564> 59' > ; <)' 56 %A255 >9'4%'56 'B>4 @)' @ ?3 3?' G > 5.' ; 5' 25 % ' 216' 1> BA)'23@' > 4A: ' 216'ZA4 ;5'4%'56 ' 31 > ' 23@'6 8 ; A ' 2>16 >'2%5 >'5> 56)' : 3' ; %4> '56 9'123' ; ' 35 8 25 @')54' 8 ' '16 > 6 '56 ' ; >4< 36 2>5 @)' 148 %4>5 ' 56 ' @ B43@D 3?)' 5> 3?56 3 ' 23@' BB4>5 ' 56 ' 7 2<' 23@' 72 : > 3?.' 143@ D 1 3@ '54'56 ' 3% >8 5 '4%'56 ' 8 23 5'23@' 84 5'@ B 12 ; A)' 5625' 62 ' 56 'A 2 5' B2><' 4%' ?44@3 ' 3' A 8 .' ; 5' 3 : >' ?>25 % ' 56 ' ': 23 59)' 4>' ? : ' 729'54'56 'B 5 A2319)' 4%'56 ' ?> 25 5' , 1 '%>4 8' 8' 8 5 ' 7 56' @ ' @ 14 >2? 8 35' 23@'+ 5' > B>44%' 3' 2AA' 8 3' 4%' 56 ' 6 ?6 5' 525 43.' : >5)' 7 56' < 3@' 148 B2 43)' 23@' 2' ? 3 D >4 ' 2 @)' 3' 239' 4%'56 'A47 5 56 >' 3' 56 'B > 2A' 4%' 5A ' #4 B A ' 64 A@' 7 ' 4 8 5' 54' 143 ' @ >'56 '4>@ 32>9' 14 > '23@' 148 843' 5 34 >'4%' 4 >' 2: 4 >- 'A %) '7 6 @ ' 7 '% 3@' 1A %A9' 143 : > 235 3' 41 2A' @ 5)' 2 ' 56 ' 148 ' ' 354' ' 8 4 5' %> G 35A9)' 23@' 2> '4%'56 '?> 25 5' 23@' 8 4 5' ? 3 >2A' P ; 3 % 5' 54' 8 23< 3@.' 23@' 55 3?' '2' B255 >3' 4%' B >%4> 8 3?' 56)' 7 6 16' 72 ' 56 '>44 5' 3 : 5 3?' 54')' 23@' 8 4 5' 8 52 ; A ' 6 +' 23@' = 56 'A 2 5' 12B2 ; A ' 4%' : >' ; 3?' 8 52< 3' 4>' B >: >5 @K' 2' B255 >3)' 345' 43A9'4%'B >% 15' 3341 31)' ; 5' % A3 ' 3' : >9'1 >1 8 5231 ' 23@' 5 25 43.' 4%'+4 3 3?' 48 5 8 ' 3' 16' > A2C25 43 ' ; 456' 4%' 8 3@' 23@' ; 4@9)' 2 ' 74 A@'5 3@' 54' 56 ' BB4>5' 4%' 216.' 3' 16' B> @ 35' 84@ >25 ' 3+498 35' 4%' 56 ' ?44@' 56 3? ' ; %' 56 ' 74>A@)' 2 ' BA ?65' 143 : >5' 56 8' 54' 56 ' B> 35' 23@' % 5 > ' ; 3 %5' 4%' 2AA 7 64' B2>544<' 4%' 56 8K' 4%' 3@ K=4 3?' 2AA' 56 ' 54 A)' @ %% 1 A5)' A2D ; 4 >)' 23@' @ 5>)' 54' 7 6 16' 7 ' 2> ' ; + 15.' 4%' ; 2> 3?' 2AA' 56 ' : ; '23@'2%%A 15 43)' 56 ' 1>4 '23@'12A2 8 5 '4%'A %)' 7 56' 4' 8 16' B25 31)' 143 52319)' 23@' B > : >231)' 2 ' 74 A@' B> : 35' 4 >' 3<D 3?' 3@ >' 56 8 .' 23@' 25' A 3?56' 8 2< ' 'H' 8 4> ' 5623' 143G D >4> I' 4 : >' 56 8 ' B255 >3' 4%' B2>5 1 A2>' 2%% 15 43' 23@' 5 8' %4>'%> 3@ '.' 4%' ? 3 >2A' < 3@3 '23@' ?44@' 7 AA' 5472>@ ' 3 8 .' 4%'?>25 5 @ '23@' A4 : '%4>' 2AA' ?44@' 4%% 1 .' 4%' 8 <3 '23@' 2' 84 5 %4>? : 55?' 5 8 B >' 3@ >' 239' AA' 2? '.' 4%' 5> 15' 4 ; @ 31 '54' ' B > 4 >)' 56 >' 2' 16 >16' 4>' 525)' 4' %2>' 2 ' '143 5 35' 7 56' 4 >' @ 59' 54' 56 ' B> 8 ' & 3?'.' 8 A@3 '23@' 143@ 1 3 43' 54' 3% ' P> 4 >)' 3' 7625 4 : >' > B 15)' 4>' 7625 4 : >' @ ?> .' 4%' + 5 1)' % @ A 59)' ; 3 : 4A 31)' 23@' 1A 2> 59' 54' 2AA ' 3' 64>5 ' '764A 'A % ' 72 ' 2' A 15 > ' 4%' 5> ' B>215 12A' B6 A4 4B69)' 23@' 216' B2>5' 4%' 5 B4 35 @' 4 5' 48 ' : >5 'B>4B >'%4>' 4 >' 8 525 43 ' -+' 6+ 64 : >' 143 @ > ' 7 56' 255 35 43' 5 > ' 162>215 >' 4%' 4 >' ; A @ "4>@)' 2 ' 5' 8 29' ; '14AA 15 @'%>4 8 '56 ' : 2> 4 ' 31 @ 35 ' 23@' 215 43 ' 4%' 'A %)' %4>' 5A> > ' 2> ' 34' A2 ; 4 > @' @ 1> B5 18 ' 4%' 5)' 34' 314D 8 8 ' B43' 5)' ; 9' '473' @ 1 BA)E' 7 AA' 443' @ 14: >' 5625' 5 72 ' 3' : >9' > B 15' 5A ' 8 4 5' B >% 15' 5A 25' : >' 72 ' 82@ ' <3473)' 54' 8 23< 3@ ' %' 7 ' 43A9' 29' 4%' 8)' 7625' : 3' A25 ' 2@' 4% 8)' 23@' 7625' ' ; 55 > 5' 3 8 ' 123345' 23@' @4' 345' @ 39) H' 5625' 7 ' %3@' 34' %2 A5' 3' 8)I' 23@' 5A 25' 56 ' >: A 4A ' 5 34 >' 4% 'A % ' 72 ' 35 > A9' ; A2 8 A '56>4 ?64 5.' 56 ' ' 8 4> ' 5A 23' 123 ; ' 2@' 4%' 239' 456 >' B > 43' 5625' : >' 12 8 ' 354' 56 ' 74>A@ & 5'@ ' '?4 3?' 2' : >9' A 55A ' 729' 3@ @' 3' 56 ' C1 AA 31 '4%' ' 162>215 >' ' 72 ' 345' 43A9'%> '%>4 8' : >9'%2 A 3?)' ; 5' B4 @)' 23@' B>215 @)' : >9' 8 2? 32 ; A ' : >5 ' 472>@ ' ' 6 2: 3A9' '256 >' ' CB> @' 56 ' 8 4 5' 2>@ 35' A4 :)' 56 ' 8 4 5' % >: 35' 9 5' >25 432A' @ : 45 43)' 23@' @ BA29 @' 3' ' 764A '143@ 15' 56 ' 84 5 2; 4A 5 ' > ?325 42' 54' ' 7 AA' 23@' 4; @ 31 '54' ' 148 823@ ' ' 8233 > ' 7 > ' ? 35A)' 8 A@)' 1 3@ 1 3@ 3?)' 23@' ?>21 4 K' ' 6 2>5' 4: >%A47 @' 7 56' < 3@3)' 148 B2 43)' 23@' 5 3@ >3 ' 54' 56 ' 764A '6 823' >21 ' 6 '?> 25' 8 BA49 8 35' 4%' '(& '72 ' 54' @4' ?44@' 54' 5A ' ; 4@ '23@' 4 A '4%' 8 3' 3' 56)' 2AA' '564 ?65 ' 23@' 2AA' '5 8 ' 7 > '143 5235A9' 23@' 2A 84 5' 31 235A9' 411 B @ ' 7 35' 2 ; 4 5' @ B > 3?' ' ; A 3?' '54' 2AA' 2>4 3@' 8)' 3' 2' 564 23@' @ %% > 35' 729 .' 6 2A 3?' @ 2)' > A : 3?' 3% >8 5)' 14%> 15 3?' >>4 >)' > 84: 3?' B> + @ 1)' B>4 8 45 3?' B 59)' + 5 1)' 162> 59)' B 21)' 62> 8 439' 28 43?' 8 3)' 23@' 1>47 @ 3?' 354' 56 ' 32>D >47' 148 B2 '4%' ' 8 3 5>9' 84> ' 215 ' 4%' 8 >19' 23@' 148 B2 43)' 5623' 56 'A43? 5'A % '4%' 56 ' 84 5' ; 3 :4A 35' 823' $-*O' % 3' ' % 9 5' B>4@ 1 @ ' : >' '47 +' B2 43 ' '62@' 4 ; 52 3 @' 56 ' 84 5' 148 BA 5 ' 148 823@.' 23@' 564 ?6' 'B25 31 ' 72 ' 1435 3 2AA9' B 5' 54' 56 ' : > 5' 5> 2A)' 9 5' '72 ' 3 : >' 431 ' 4: >148)' 3 : >' 431 ' ; 5>29 @' 354' 239' 35 8 B >231 ' 4>' C1 ' 3' 74>@' 4>' @ @)' 3 : >' 431 ' \' B2< ' 32@: @A9' 7 56' 'A B \' ' 3@ > @' 56 ' 84 5' 1> A' 3 A5 '%>48 ' ' 3 8 ' 7 56' 56 ' 584 5' 148 B4 >)' 8 <D 3)' B25 31)' 23@' > ?325 43.' @ BA29 @' 56 ' 84 5' 2 543 6 3?' %4>D 5 5 @ ' 3@ >' 2' 84 5' B2 3% A' 23@' ?348 3 4 '@ 256.' 23@)' 54' 1>473' 2AA)' 3' 56 ' : >9' 8 @ 5' 4%' '54>8 35' '43' 56 ' 1>4)' 8 BA4> @' %4>D ? : 3 '%4>' ' 8 >@ > > ' 3' 5625' @ : 3 A9' 162> 52 ; A ' B>29 >)' \' 256 >)' %4>? : ' 56 8)' %4>' 56 9' <347' 345' 7 625' 56 9' @4 I 4>' 72 ' ' 7 @48' 3% > 4 >' 54' ' : >5 ' 6 ' @415> 3 ' 'N2 ?65' 7 > ' 56 ' 84 5' ; A 8 ' 23@' 56 ' 84 5' 8 B4>5235' 5625' ': i > ' : >' ; %4> ' @ A : > @' 54' 8 23< 3@)' 23@' : >9' 729' 74>5AC9' 4%' 5625' #4@' %>48' 7648' 'B>4% @' 54' @ > : ' 56 8)' 23@' 764 ' 43' ' @ 1A2> @' 8 A%' 54' ; ')' B> 1 B5 ' 31 A125 @' 56 ' B > 5' 23@' 84 5' B >% 15' 8 4>2A 59.' ' @ 14 > ' 7 > '% AA' 4%' @ ?3 59' 23@' 7 @48)' 9 5' 35 AA ? ; A ' 23@' 1A 2>.' 'B2>2 ; A ' 143 : 9 @' 3 5> 1D 5 43' 3' 56 ' 84 5' BA 2 3?)' %2 8 A 2>)' 23@' 8 B> : ' 8 233 >.' 23@' 23 7 > ' 54' 56 ' 8 239' 3 @ 4 ' G 5 43 ' 5625' 7 > ' B 5' 54' 8)' 6 7 @' 3148 843)' G 1<3 ' 4%' 1431 B5 43)' 4 3@3 ' 4%' + @? 8 35)' 23@' B> 31 ' 4%' 8 3@)' 148 BA 5 A9' ; 2%%A @' 2AA' 56 ' 2>5 D %1 ' 23@' 8 2A 1 ' 4%' ' 3 8)f 3@' 32 ; A @' 8 ' 54' A @ ' 2AA' 56 ' 32> ' 5625' 7 > ' A2 @' %4>' 8 ' 5' 2BB 2>' 56 3)' : 3' %>48' 56 ' 64>5' 23@' 8 B >% 15' < 516' 4%' 4 >' 2: 4 >-) 162>215 >)' 5625' ' 72 ' ; 943@' 148 B2> 43' 56 ' 7 5' 23@' 84 5' : >5 4 ' B > 43' 5625' : >

64 A@' ; ' 56 ' 84> '@ 5 A? A 62;A)' 2 '148 3?' 255 3@ @' 7 56' 56 ' : >9' 28 ' 1>1 8 5231)' " %1 ' C ' /' '>48 ' 56 ' 143 B 1 4 ' 8 3 31 ' 4%' 2' 1 59' 523@ 3?' 43' 2' 84 852 3)' '5 >3 ' '@ D 14 > ' 54' 56 ' 34' A ' > 82><2;A ' 5 25 43' 4%' '473'@ 1 BA ' 255' ' /N' '>48 ' 56 ' 5 8 BA ' ; %4> ' 8)' 'B4 35 ' 54' 5625' 4%' ' ;4@9)' 7 6 16' 72 ' 84 5' B>4B >A9' 4' 12AA @' %>48 ' 56 ' : 3 59' > @ 3?' 3' 8)' *463' ' ' '>48 ' >4@-' 32@: @A9' A 2@ 3?' 6 ' 2>89' 4 5' 54' 8 5' 56 ' < 3?' 4%' >2; 2)' 764' 128 ' 2?2 3 5' + 8 ' 7 56' B > 4 >' %4>1 ' 23@' @ % 25 @' 6 8 2' 2' A 43' 'A2 @' @47 >%' 54' // 764' 35 > @' 43' 56 ' 6> 523' 72>%2>)' 5625' 56 9' 64 A@' % > 5' 7 AA' 7 ?6' 23@' 12> % AA9' 148 B 5 '56 '@ %% 1 A5 '5625' 255 3@ @' 5)' ; %4> ' 56 9' 7 > ' 3?2? @' 3' 2' 8 255 >' 4%' 16' 143 G 31)' " < C : ' ' '>48 ' 56 ' >4; ; > ' 76 16' 7 > ' 84> ' B2>5 1 A2>A9' %> D G 35' 3' 5625' 2? ' '%4>8 ' 2' ; 2 5 % @' =54>9' 4%' 2' 1 >52 3' 5>2: AD A >)' 764' % AA' 28 43?' 56 :)' 72 ' 5> BB @)' 23@' 74 3@ @)' 23@' 14 A@' % 3@' 34' > A %' %>48 ' 239' 4%' 6 ' 473' 14 35>9' 4>' B > 2 43.' ; 5 8 5' 7 56' 5' 3' 43 ' 4%' 564 '%>48 ' 7648 ' 6 ' 62@' 56 ' A 2 5' > 2D 43' 54' CB 15' 5)' 2 ' ; 3?' 4' 8 16' @' 54' @ B ' 23@' 625 ' 5625' B 4BA)' 23@' 56 >' 729' 4%' 74> 6 BK' %>48 ' 76 31 ' '%4>1 ' ' 4BB43 35' 54' 2BB>4: ' 56 ' i 32;A ' 3 5231 ' 4%' 6 823 59)' : 3' 3' 56 ' 4@ 4 ' 162>215 >' 4%' 2' 282> 523.' 23@' 56 > ;9' 6 7 ' 6 8)' 3D 1435 52;A9)' 5625' 56 ' A < ' ?44@' 4%% 1 ' 74 A@' 34' A ' ; 148 ' 2' * 7' 3' 56 ' A < ' 1>1 8 5231)' " < ' C ' ' 3@' =48 ' 7625' 4%5 3' 62BB 3 @' 2;4 5' 5625' 5 8)' 328 A9)' 5625' 564 ' 764' 4;52 3 @' 56 ' < 3?@48 ' 4%' * @ 2' 7 35' 54' $48 ' 54' ; ' 143% >8 @' 3)' 5.' 23@)' 43' 56 >' > 5 >3)' 12AA @' 16' 54' 2114 35' 2 ' 62@' ; B' 7235 3?' 3' 56 >' @ 59)' 23@' 544<' 28 BA ' : 3? 231 ' 43' 564 ' 764' > ; AA @' 2?2 3 5' 56 8)' 76 16' 72 ' 56 ' 12 ' B2>5 1 A2>A9' 3@ >' >16 A2 .E' ' ? : ' '%4AA47 > ' 54' 3@ > 523@)' 5625' 2%5 >' '62@' 2 1 3@ @' 3D 54' 6 2: 3)' 23@' 52< 3' % AA' B4 43' 4%' ' B > 5 2A' < 3?@48 ' ' 74 A@' 148 ' 2?2 3' 3' B47 >' 23@' ?> 25' ?A4>9)' 23@' 345' 43A9' B 3 6' 5625' > ; AA 4 ' 325 43' 4%' 56 ' * 7 ' 7 56' C 8 BA2>9' + @?8 35)' ; 5' 25' A 3?56' 143@ 8 3' 2AA' 564 ' 764' 7 A% AA9' 4BB4 @' ' #4 B A)' 2 ' 7 AA' 2 ' 564 ' 764' 1435 3 @' 54' 3 ?A 15' 23@' @ > ?2>@' 5)' " < ' C C /F' 239' 84> ' 3 5231 ' 8 ?65' ; ' ? : 3)' 76 > ' 6> 5' 62 ' %4> 8 @' ' 2>? 8 35 ' 23@' C64>525 43 ' 43' 16' 56 3? ' 2 ' 4%% > @' 56 8 A: ' 54' 8)' 2BBA9 3?' 216' 84 5' 2B5A9' 54' ' B> 35' B >D B4 'K' 23@)' 76 > ' 56 ' @4 ' 345' 4 ' 8 8 @ 25 A9' 2BB 2>)' 7 ' 62: ' > 2 43' 54' ; A : ' 5' ' 16 %A9' 47 3?' 54' 56 ' 48 43' 4%' 48 ' 1 >D 1 8 5231 ' 3' 56 ' 6 5G 9 ' &9' 56 ' 8 23 ' ' 8 B>4: @' : >9' 56 3?' 354' 23' % A' 84>2A)' 82@ ' : >9' 4;+ 15' 23@' : 35' >: '%4> 2' 143 5235' 843 54>' 23@> 8 8 ;>231 =' 4%' ' 3 5> 15 43)' 76 16' 8 5' 56 ' ; ' 84> ' 2 A9' > 52 3 @)' 5623' 56 9' 14 A@' ; ' ;9' 2' A43?' 5>2 3' 4%' 2; 5>215' > 2 43 3?)' 4>' 3@ >' O /' 2>5 % 1 2A' 2>>23? 8 35' 4%' 2' 3 8 ; >' 4%' B2>5 1 A2> ' A2 @' @473' 54? %4 >' -+' +

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Places
mentioned in the
Acts of the Apostles
Illustrating
St PAUL'S TRAVELS.
Asia and Europe
St Pauls Journeys from Jerusalem to Damascus &c. after his Conv.
Through Cyprus & Asia Minor distinguished thus
from Jerusalem to Antioch with his 1st Letter from the Apost. to Rome
from Jerusalem to Antioch containing his 2d Journey
through Asia, Macedonia, Illyricum &c. thus
St Pauls Voyage from Cæsarea to Rome thus
Denotes that the same Route was taken in the two
English Miles
Longitude East 24 from Greenwich
EUXINE OR BLACK SEA
MEDITERRANEAN
SEA
ADRIATIC
SEA of ADRIA
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BITHYNIA
GALATIA
CAPPADOCIA
PONTUS
ASIA
PHRYGIA
LYDIA
CARIA
LYCIA
PAMPHYLIA
CILICIA
SYRIA
PALESTINE
EGYPT
ARABIA
IDUMEA
ACHAIA
CRETE
SICILY
MALTA
CYRENAICA
JERUSALEM
Jericho
Jordan
Damascus
Antioch
Ephesus
Corinth
Athens
Rome
Troas
Philippi
Thessalonica
Berea
Tarsus
Iconium
Lystra
Derbe
Pisidian Antioch
Perga
Attalia
Miletus
Patara
Myra
Cnidus
Rhodes
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Chios
Lesbos
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Sidon
Ptolemais
Cæsarea
Joppa
Melita
Syracuse
Puteoli
Appii Forum
Tres Tabernæ
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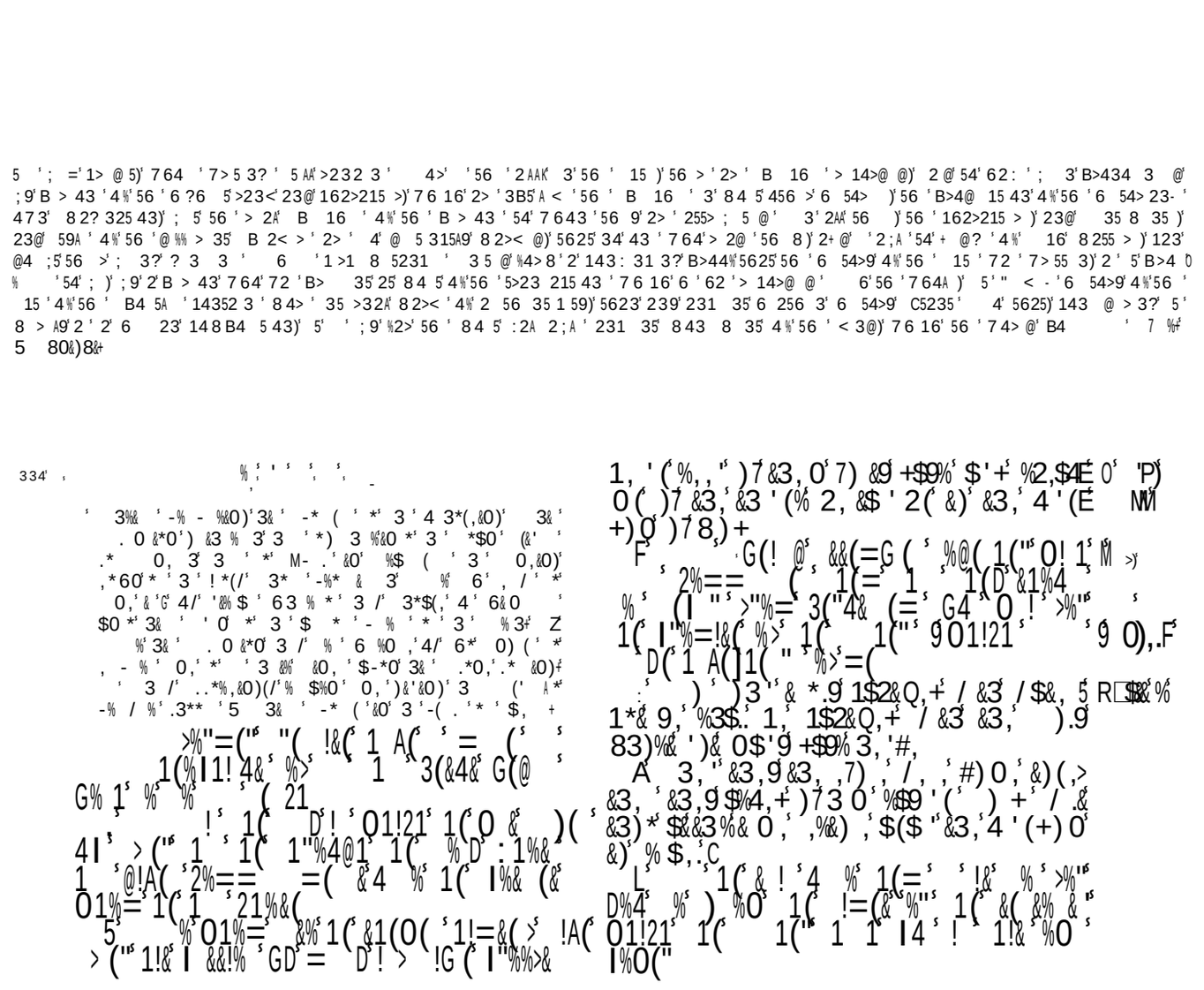
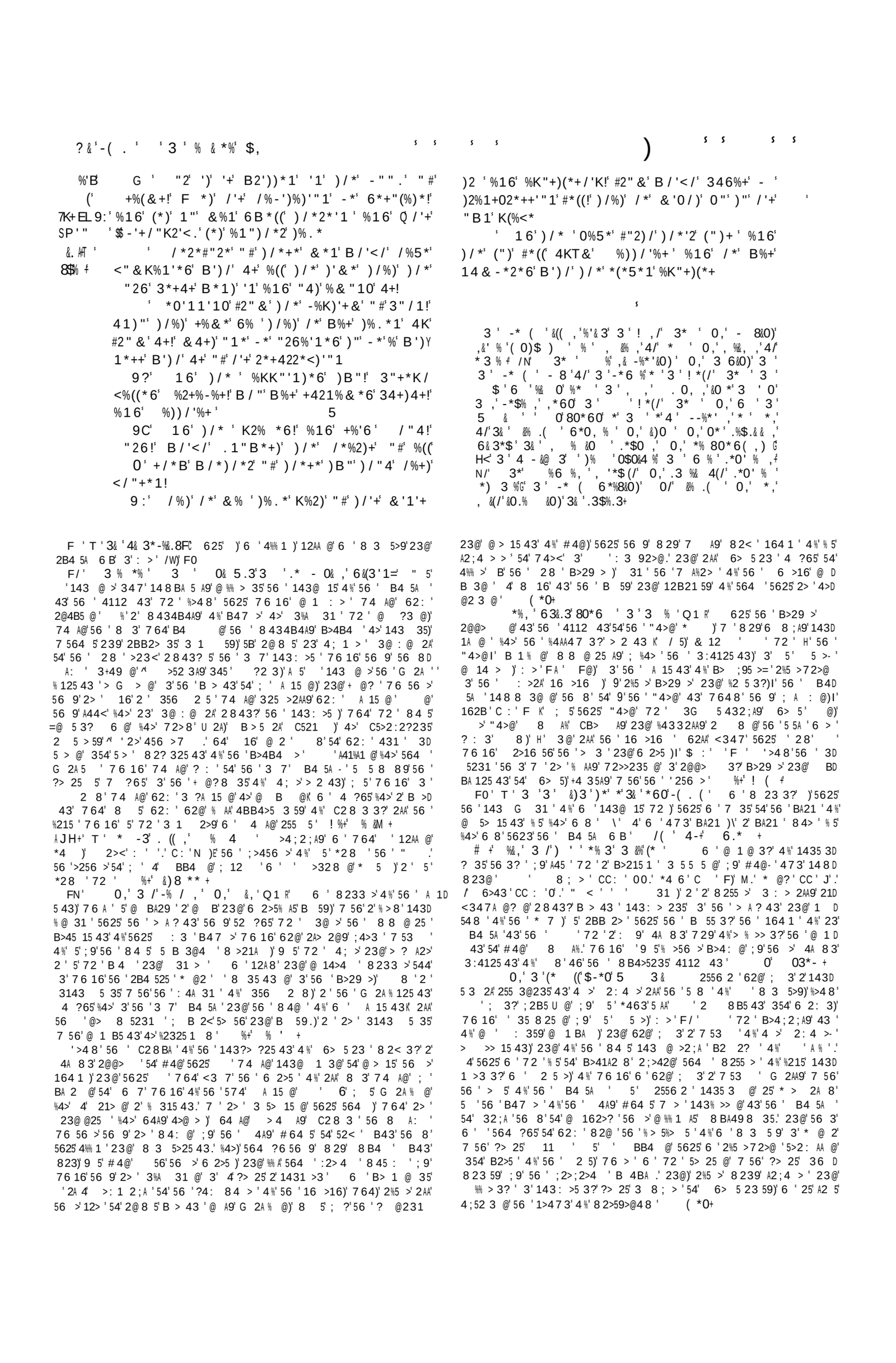


From Vanderwerff. *Engraved by Geo.e Cooke.*

THE ASCENSION.

Acts C.1.v.9.

London Published by the Society for promoting Christian Knowledge Jan.y 1.1817.



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6'?%5'4%'543? '72'2'8 >21A' 3'76 16'56 >'14 A@';'34' @ 1 5'4>' AA 43' 6' B4 5A '7 >'7 AA' <34 f=.'56 9'62@' 2A729'@7 A5' 3'* @ 2.'56 >' 8233 >'4%'A%)'56'1>1 8 5231' 4%'56 >' @ 125 43)'56'8 233 '4%'56 >'143@ 5 43)'7 >'3454> 4 ' : >2A' 56 3?'1431 >> @'54' 6 7'5625'56 9'14 A@'345'62:'21D G >@' 3& '<347A @?' 3'23'4>@ 32>9'729Z' %'56 9'62@'A 2>3 @' 56 'A23? 2? ';9'56'6 AB'4%'8 3)'5625'74 A@' > A9'62:';3' @ 14:>@.' %'7' 643A@' 29'56 9'A 2>3 @'56 8';9'56 >'*' ' 2?21 59'23@' 3@ 5>9)'5625' '544' 8 B>4;2;A'54';' BB4 @.'23@)' 76 56 >'7 56'4>'7 564 5'56' 2 5231'4%'456 >)'Q '42;7>'4%' 48'9 2>'74 A@' 12>1 A9'62:';3' %%1 35' 6'72'2A 4'2' 8 >21A' 3 7'23@' 3? A2>' 3' 5'<3@)'23@'56 >%4>'2@2B5 @'54' 2%% 15'56'* 7' 3'2' B2>@13A2>'8233 >' 6'8 >21A'143 5 @)' 84> 4:>)'345'43A9' 3' B 2< 3?' 3 7'A23? 2?)';5' 3'5 216 3?' 21> @ 5> 56' 3'2' 7'23@' %% 15 2A' 8233 >' ' 6 2>' 56 8 8 2<)'56'>;A5 5 @' 29)'56'743@ >% A' 74>< '4%'#4@' 6)' @4 ;A @'56'8 >21A)'23@ 72'2AA'5625'2'> 2 432;A'B > 4B' 14 A@' @ >'%4>'6 '25 %215 43'23@'143:15 43' 6'?%5'4%'543? '7h' B2>5 1 A2>' >:1'54 6> 5 23 59' 5' 312 2 @'56'3 8;>'4%' ;A :>'25'* > 2A 8)'23@' 3?2? @'56'2@8 >25 43'23@'%2:4 >'4%' 56'B 4BA'4'8 16)'5625'56'3 8 '4%' 6> 5'14 A@'345'2114 8' B 6'56 >'@ ?3'2?2 3 5'56'@ 1,BA)'23@' 5' >:@'54'143:9' 56'#4 B A'54'@ 5235'>?43' F

6'@ 5 3? 6 @' :35'4%'56)@ 1 35'4%'56' 4A9'#64 5'43' 56' B4 5A '62';3'1 A ;>25 @';9'2'% 5:2A'6'56' 6> 5 23' 16 >16' &9'56'% 5:2A'7'8'> 8 3@ @'54'5623<'#4@'%4>'564' 8 >21 A4 '?%5'76 16' ';547 @'43'56' B4 5A)'54'%5'56 3' 54' 143:>5'56'74>A@.' 23@'%4>' 3 B>3?'56' 21> @ B 38 3)' 76 > ;9' '62'?:3' 16'2;3@235 5 5 8439'4%'56'5> 56'4%' >'>6?43)'23@' 16'%>8'?>4 3@'%4>'4 >'%> 56.'2A 4'2>3 5A9' 54'B>29'%4>'564 '?%5'4%'56' 4A9' B>5)'76 16'2>'4'3 1 2>9' 54' 32;A' '54> 3'56'729'4%'@ ' :3'148 823@8 35.'23@' 54'255>;5'2AA'56'?44@'5625' 3')'2'7 AA' 2'56'B >% 15 43' 23@' 2;A5 '7' 3+49)'54'5625' 4A9' B>5'764 '%>' ?%5'56 9' 2>)'23@'54' 8 BA49'P 8'54'56';3%5'23@'2@:2352? '4%'4 >% AA47' 1> 25 >' (*0+

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A 16) / * .1*B) / %) %) B%+ / * B / '</
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5 1)' @4' 6 2>5 A9' > B 35' 56 8)' 23@' ?=A2@A9' > 1 : ' 56 ' 74>@)' 23@'
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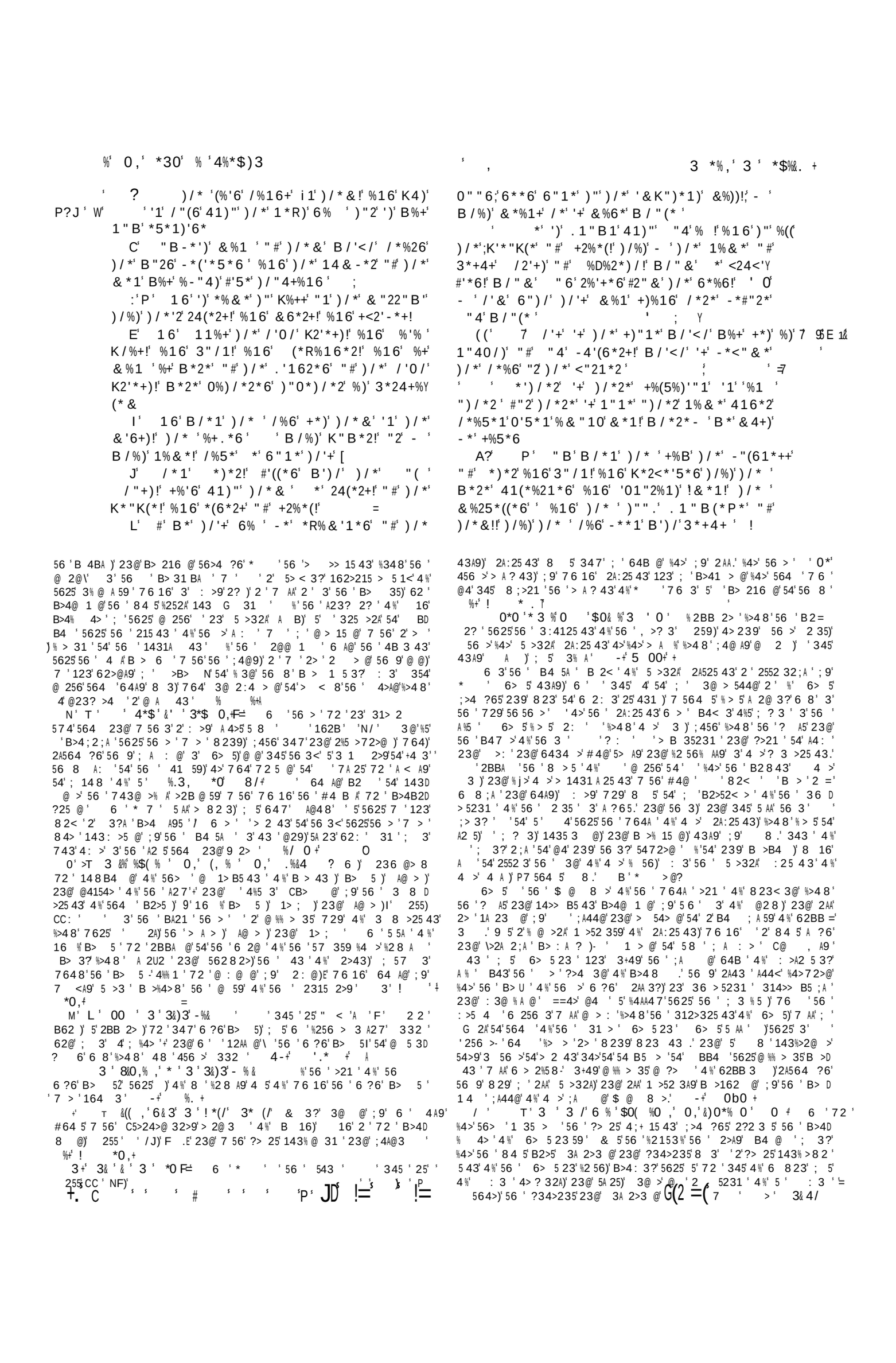
162> 59

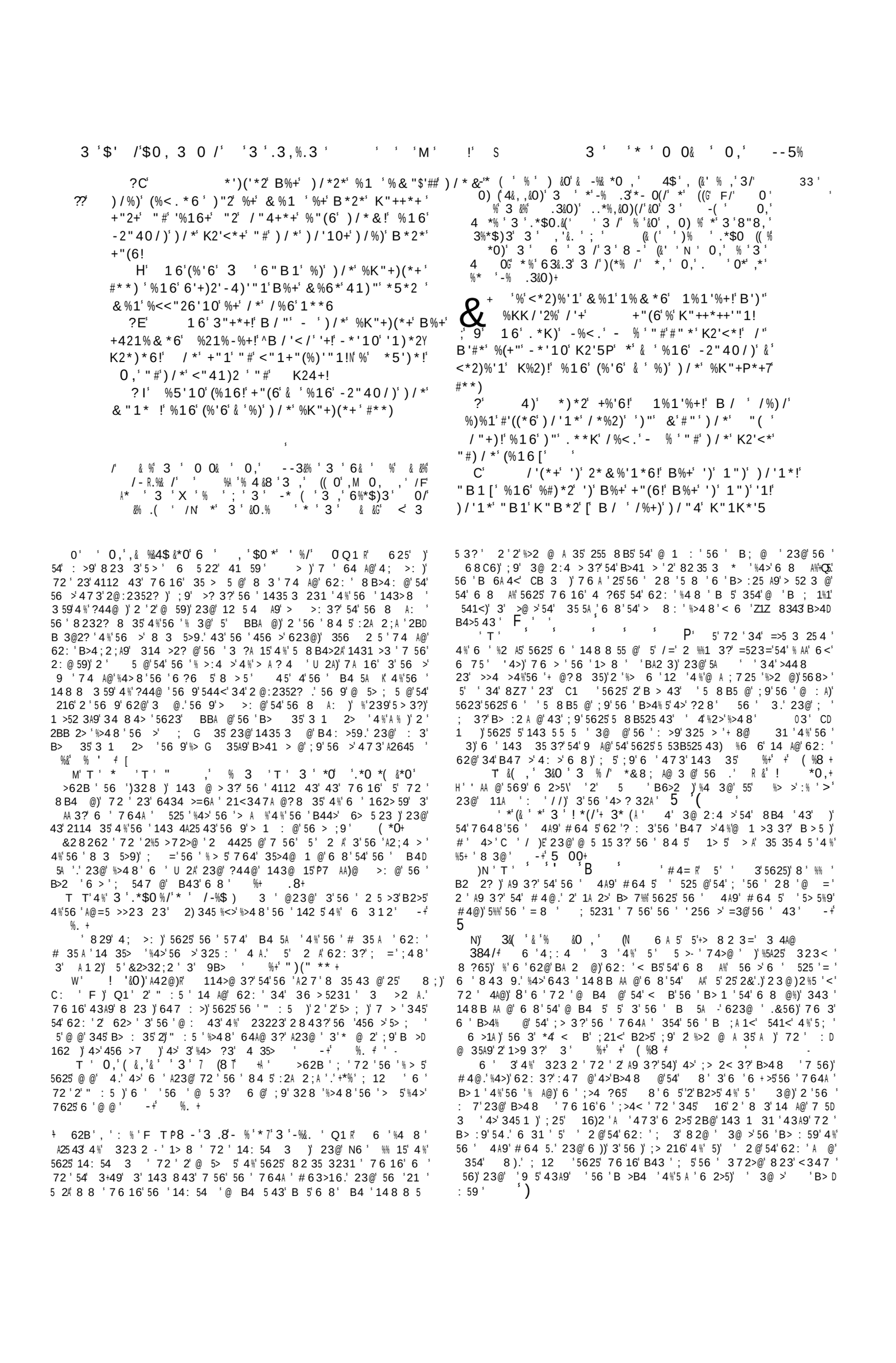
Painted by Raphael d'Urbino. *Engraved by R.t Sands.*

ST PETER & ST JOHN HEALING THE LAME MAN, AT THE BEAUTIFUL GATE OF THE TEMPLE.

Acts C.3.V.7.

London Published by the Society for promoting Christian Knowledge, March 1. 1816.





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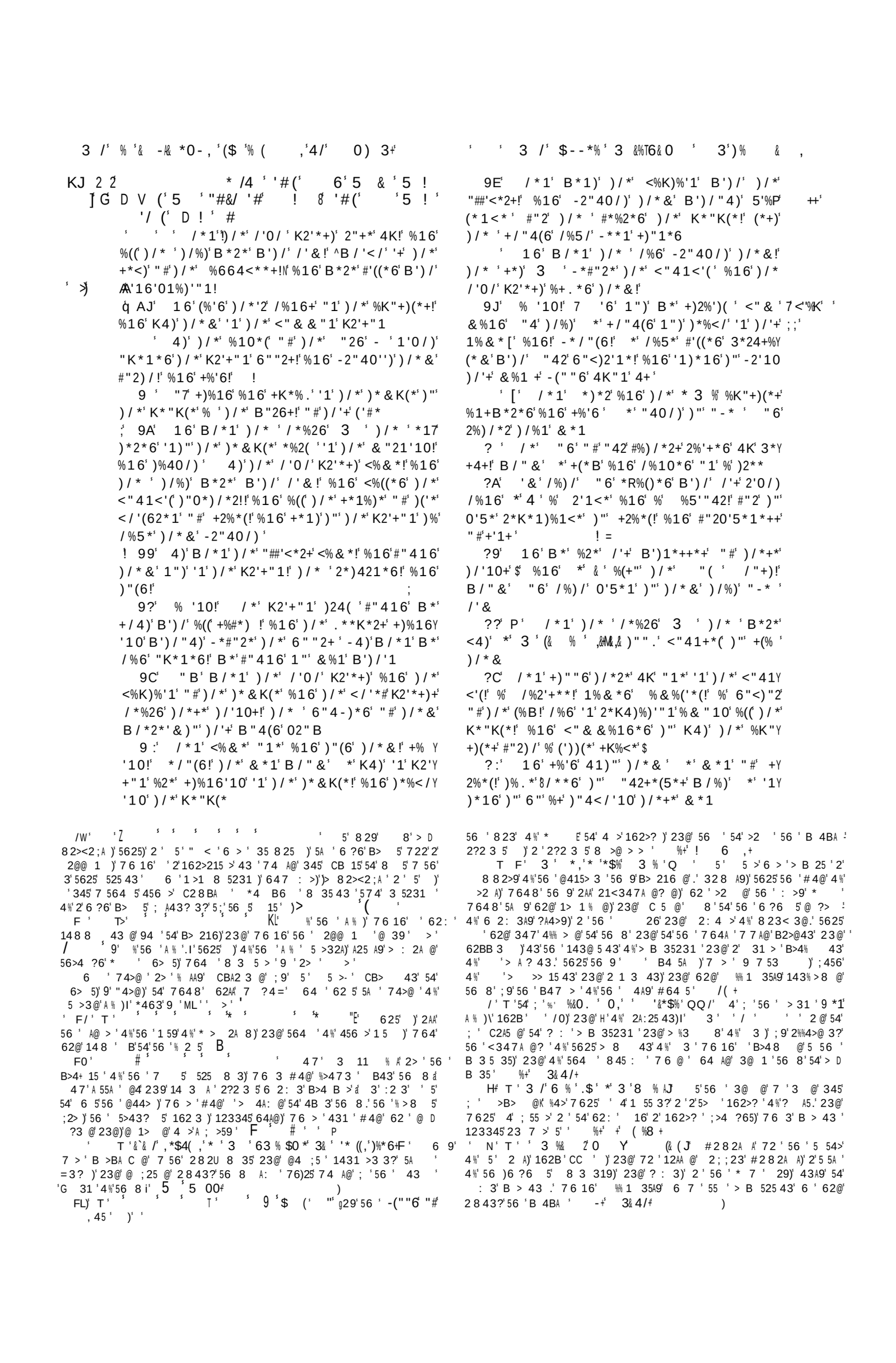
Painted by Raphael d'Urbino.

Engraved by R^t. Sands.

DEATH OF ANANIAS.

Acts C 5 v. 5.

London Published by the Society for promoting Christian Knowledge, July 1, 1816.



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: :' ="' ' '% #$*"//' *' ' - /' @ '
/ 4 (' " ' (*' /' # ' 'D #' '#(' '5'
' $/ !' *' @ (' '#(' < "' '#(#$' #
2>56'!#$ ' '#(' *'@ (
:E' .#(' ' (' = /(' ' ' ' 'D #'
(' '#(' ' E # *' 6'# '#(#$'
'!$ ' '#(' *'@ (
:I' I #' ' &! (' "' 5 ' '' / "('
D & ' '#(' (' !' '!' '#(' !'# " 7
@' # 6'5 ' #' '&& !(
' :J' 3@' , $-' /#&<!)-' 4%' 56 ' 1 59.' 23@'
543 @' ###&' 23@' 56 ' 7 53 ' A2 @' @473

5 8BA)' 162B' : ' / ' '56 > %4> ' 8 35 43 ' 7 56' > : > 31 ' 56 '
52; >321A ' 23@' 5 8 BA .' ; 5)' 25' 56 ' 28 ' 5 8)' 14>> 15 ' 56 ' 544'
6 ?6' > ?2>@' 4%' 6 ' 14 35>98 3' %4>' 5625' 21> @' BA21 ' 4-+' 6 '
0+ ' '
'2>? '5625'56 ' >: 1 ' 3+4 3 @' ; 9' 56 ' A27' 4%' 4 ' 14 A@'
345' 6 ' 35 2A' 54' 5> ' > A ? 43' .' %4>' 56 ' * 7 ' 62@' 5' 345' 3' 56 >'
B47 >' 54' 4; >: ' 5' %4>' 56 ' B21 ' 4%' %4 >' 6 3@> @' 9 2> .' 23@)'
5625' 5' 72 ' 345' 35 3@ @' 54' ; ' 31623? 2; A)' 2BB 2> ' %>48' 56 '
1>1 8 5231 ' 4%' 56 '52; >321A)' 564 ?6' 2BB4 35 @' 7 56' 56 ' 584 5'
4A 83 59)' ; 3?' A2 @' 2 @)' 23@' 56 '5 8 BA ' ; A5' 3' 5 ' 5 2@)' 3 2>'
% : ' 6 3@> @' 9 2> ' 2%5 >K 34>' 72 ' 56 ' 5 8 BA)' 82?3 % 1 35' 2 ' 5'
72)' 4%' 239' > ?2>@' 3' 56 ' ?65' 4%' # 4@2' %4>' ' "4>@' 4%' 6 2D
: 3' 23@' 2>56)' 23@' 7 AA' 211 B5' 56 ' @ :45 43 ' 4%' '%2 56% A' >D
:235)' 76 56 >' 4%% > @' B' 25' * > 2A 8)' 4>' 3' 239' 456 >' BA21)'
*463' : ' F/)' FN)' -+' 5 00+
NO' T' 6&3' $ J' *4 6 2' '6 >)' 23@' 25' ; ' : ' L)' 12AA @' * D
)' 216' 328 ' ?3 %9 3?' 2: 4 >' -+' 5 00+
0/' ' & 0 .8 ,' 0,'$0.8% $.& , N' ' 5 ; ;4>3' ? 3 >25 43)'
;42 5 3?' 4%' 94 >' 12>32A' 1>1 81 43)' 2' ; >2628-' 16 A@> 3)' ; 5'
9' 31>1 >21 @' 3' 6 2>5' 23@' 2>)I' 3' B > 5' 23@' 4; @ 31)' 9 '@4'
2A729)' %>48' 56 ' 2>A 5' 5 8 ' 54' 56 ' B> 35)' 5> ??A ' 2?2 3 5'
56 ' 4A9' B > 5)' %4AA4 7 3?' 56 ' C2 8 BA ' 4%' 94 >' %256 > ' %#
& 8 +
0F' 3&.3' * ' 3 +-%*-3 '3 ' ' 0*' Q1 ' ' 5 AA ' 56 8)' 5625'
56 9' 215 @' 3' 56 ' 28 ' B > 5' 7 56' 56 >' % 5A > ' (4 >' %256 >)'
6 ' 29)' AA5> 25 @' 564 '@64B6 5 ' 5625' %4> 54A@' 23@' @ 1> ; @' 56 '
; A ='5 8 ' 4%' 56 ' ='K ; 5' 94)' ; 9' 2' 84> ' @ B >25 ' @ D
?> '4%' 7 1< @3)' 62: ' ; 5>29 @' 23@' 8 >@ > @' 56 ' : >9' D
26' 8 A%) /(+
0 ' T ' 4/' 3 ' ,& -* &&*0' * ' 0) =' 5' ' %> G 35A9' 2@' 5625'
56 ' * 7 ' > 1 : @' 56 >' A27' ; 9' 54 ' 8 B 5>9' 4%' 23? A)' 2 ' 3' # 2A'
)' .' ; ' 'F ' -+' %. + P
0N' T ' 0,' 3 /')0 3 ,' *0' 3& ' 6&3' 8 &%' 3+=' 6 9' CD
B> @' 56 8 A: ' 2?2 3 5' 6 8' 7 56' 2AA' 56 ' ?3 ' 4%' >2? ' ?3@' ; 5D
5 >3 ' /(+
>>+' L '(**8 ,' $-' , (/=' 5' 5 B6 3)' <347 3?' 7625' 56 '
% >9' 4%' 56 > ' 74 A@' 3@' 3)' A %5 @' B' 6 ' 9 ' 23@' 6 2>5' 54' 6 2D
: 3)' 76 > ' 6 ' 43A9' 64B ' 23@' 143%@ 31 ' 7 > ' BA21 @.' 23@' # 4@)'
%4>' 6 ' B> 35' BB4>5)' :4 16 2% @' 6 8' 2' ?65' 4%' 56 '?A4> 4 ' 2BD
B 2>231 ' 4%' 56 ' : 3 ' 2+ 59)' 23@' *)' 3' 56 ' 6 ?6 5' BA 3 '
@4 >' 23@' ?> 253)' > 2@9' 54' > 1 : ' 6 8 ' /(+
456 3?' ; 5' 2' > 8 ;A231 ' 4%' 5)' 5 =6 3-' : >5 ' 123' 35 5A

' 54' 5' 5 B6 3 ' 143 4A25 43 ' 4' 3+49' 56 '> : : 3?' B>4 B 15 '
4%' 2' ?A4> 4 ' 5 >3 59)' 5' ' 3 1 2>9' 7 ' 64 A@' 7 56' 6 8' H' A44<'
B' 5 @%2 5A9' 54' 6 2: 3)I' 5625' 4 >' 2%% 15 43 ' 23@' 64B)' 4 >' 764A '
6 2>5)' 4 >' 764A ' 5> 2 >)' 64 A@' ; ' 56 > ' 3@' 54' A B' 2 ' 6 '
@ @)' 76 3' 56 ' A43?' 3 ?65' 62AA' 1A4 ' S >' 9)' 7 ' 8 5)' 2 ' 6 ' @ @)'
148 8 5' 4 >' B > 5 ' 354' 56 ' 623@ ' 4%' 56 ' "4>@' * .' ; ' B >% 15A9'
1435 35' 54' A 2: ' 56 ' 74>A@' 25' 239' 5 8)' 3' 239' 8233 >.' ' '
% 55 5' %4>' .' @ :45 ' 4 > A: ' 35 > A9' 54' ' >: 1 =)' 23@' ; ' 4D
A 1 54 ' %4>' 3456 3?)' ; 5' 5625' H' 76 56 >' 7 ' A :)' 7 ' 8 29' A : ' 354'
56 ' "4>@)' 4>' 76 56 >' 7 ' @)' 7 ' 8 29' @ ' 354' 56 ' "4>@)I' 4>3)
C : ' L' 0' 03*- +
>D+' L 3 ' *0' * ' 0=' 0' 2AA @ ' 54' 23 ' : 5 ' / ' >' "4 ='
%> G 35A9' 12AA ' 8 A%' H' 56 ' 43' 4%' 823)I' ; 5' 5' ' >2> A9' 5625'
7 ' %3@' 8 ' 4' 12AA @' ; 9' 456 > ' %+' ")3 ** + ' 345 ' 25'
255' : ' F
' T ' *-- ,' 3 &%' % ' 4' 2 ' 345' 54' 6 2>' 2' 74>@' 84> ' 3'
6 ' @ % 31 ' %+' ! (+
0L' 0,' . ' 3& ' *$' '&8 ' .&/ (' >4; 2; A9)' ; 12 ' 34' 823'
72 ' 54' ; ' B 5' 54' @ 25A ' 7 56 3' 54 ' 1 59K' 4' * ' 72 ' 52< 3'
4 5' 4%' 56 ' 1 59' 54' ; ' 1> 1% @' ' /' ! 3? ' CC ' / ' -+'
%. +
0:' 0,' *0 ,' 3 2F=' K 6 ' 543 3?' 4%' % 5' 5 B6 3' 72 ' 23
>> ? A2>' 5 8 A5 4 ' 215)' 345' @43 ' 3' 143 G 31 ' 4%' 2' 35 31 ' 4%'
56 ' 236 @> 8 .' 23@' @4 ' 345' B>4: ' 5625' 56 ' * 7 ' 25' 5625' 5 8 '
62@' 54 ' B47 >' 4%' A % ' 23@' @ 256 ' -+ . ,&0 +
5' 5 B6 3' ; 3?' 5' 3' 56 ' %4> %>435' 4%' 56 ' ; 255A)' 56 ' % > 5' 4%'
5625' 34; A ' 2> 8 9' 764' > 5 @' 354' ; A44@' 3' @ % 31 ' 4%' * ' 23@'
'5> 56)' 5' 72 ' 4%' 8 ?659' 143 G 31 ' 7625' '5625' 314 35 >'
8 5K' 4%' 8 ?659' 143 G 31)' 345' 43A9' 54' 56 ' 1628 B 43' 6 8 A%+'
; 5' 54' 56 ' 12 ' 3' 76 16' 6 ' 72 ' 3?2? @)' 23@' 54' 8 239' 8 AA 43 ' '
4%' 4 A ' 764' 7 > ' 54' 3?2? ' 3' 5' 2%5 >' 6 8 ' 6 '> A ? 43)' 76 16'
3@ >544<' 4' ; 4A@A9' 54' > 34 31 ' 56 ' 74>A@)' 23@' H' ; >4 ?65' A % '
23@' 8 8 4>52A 59' 54' A ?65)I' 72 ' 56 3' 3' 5 ' 3%2319.' 23@' 23' 3D
5231 ' 4%' 564 ' > ? 43 ' 4%' 8 8 4>52A 59' 4B 3 3?' 5652 A: ' 54' 43 '
764' 62@' 4' 5 2@%2 5A9' % C @' 6 ' 9 ' B43' 56 8)' 28 ' 3' 54 ' 5> 3?56'
4%' 5625' : 43' 5> 8 B6 @' 4: >' @ 256' 23@' 8 2A 1 ' 3' 56 >' ?62 5A 5'
%4> 8)' B>4: @' 56 ' %4>1)' 2 ' ' 2 ' 1 >52 359)' 4%' 564 ' 64B ' 23@'
5625' %2 56' 3 B > @' ; 9' 56 ' #4 B A ' 0' 03*- +
T T ' (&,' ,*% 0' 3 &%' .(* 3 K 625' 56 9' 8 ?65' C 1 5 ' 56 >'
; A44@9' B B4 ' 7 56' 56 ' ?> 25 >' > 2@ 3 ' 114>@ 3?' 54' 56 ' A2 7)'
5' C: C' W+E' 56 ' 7 53 ' 7 > ' 56 ' B > 43 ' 764' 7 > ' 54' 12 5'
56 ' % > 5' 543 ' $ *4% +' ;'

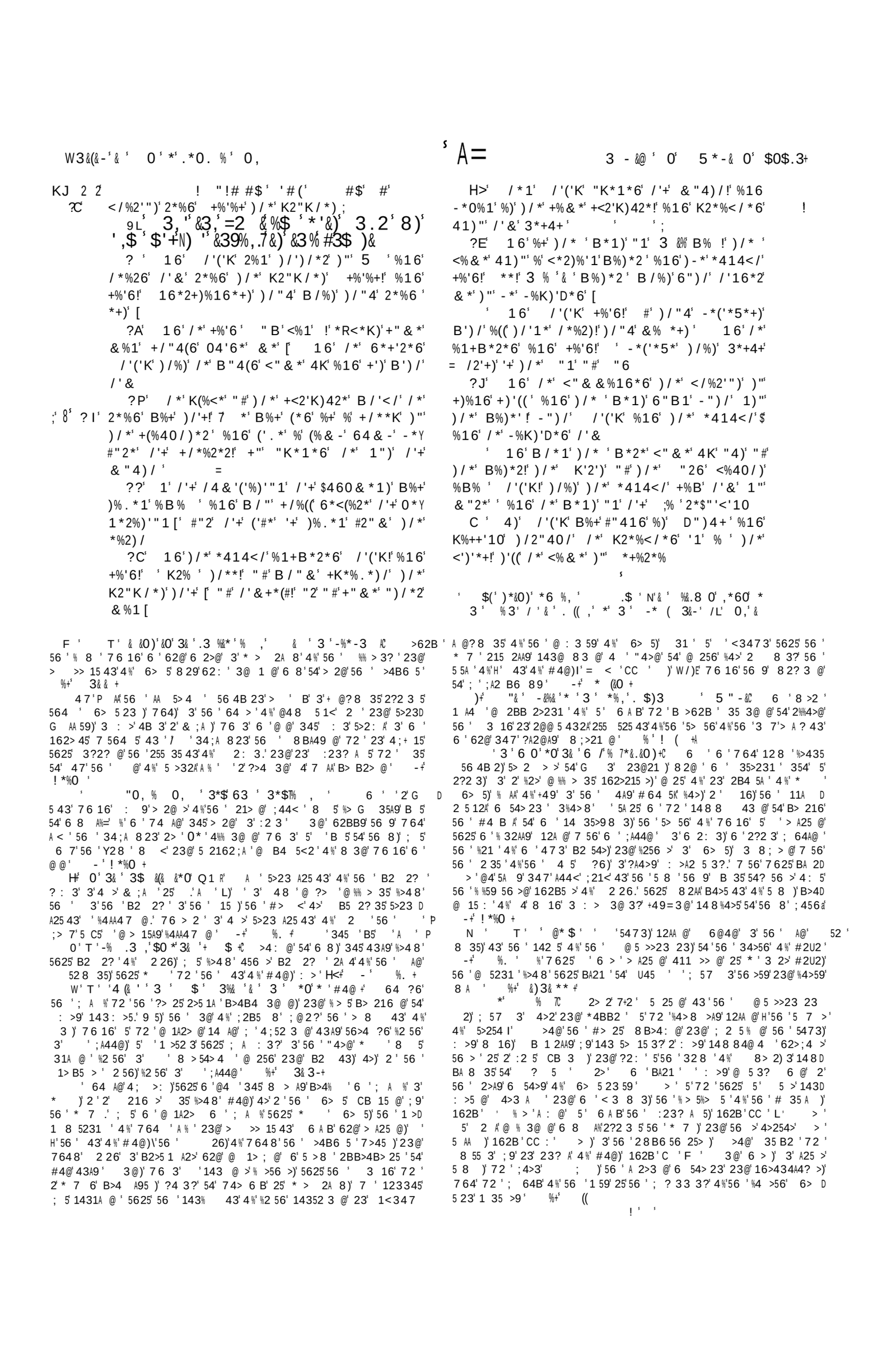
A %' 3 %-(/'% -%*' 3' 3 ' ' 3/-*.%& /' 0,'.*' *$ 0 ' * ' & *3+

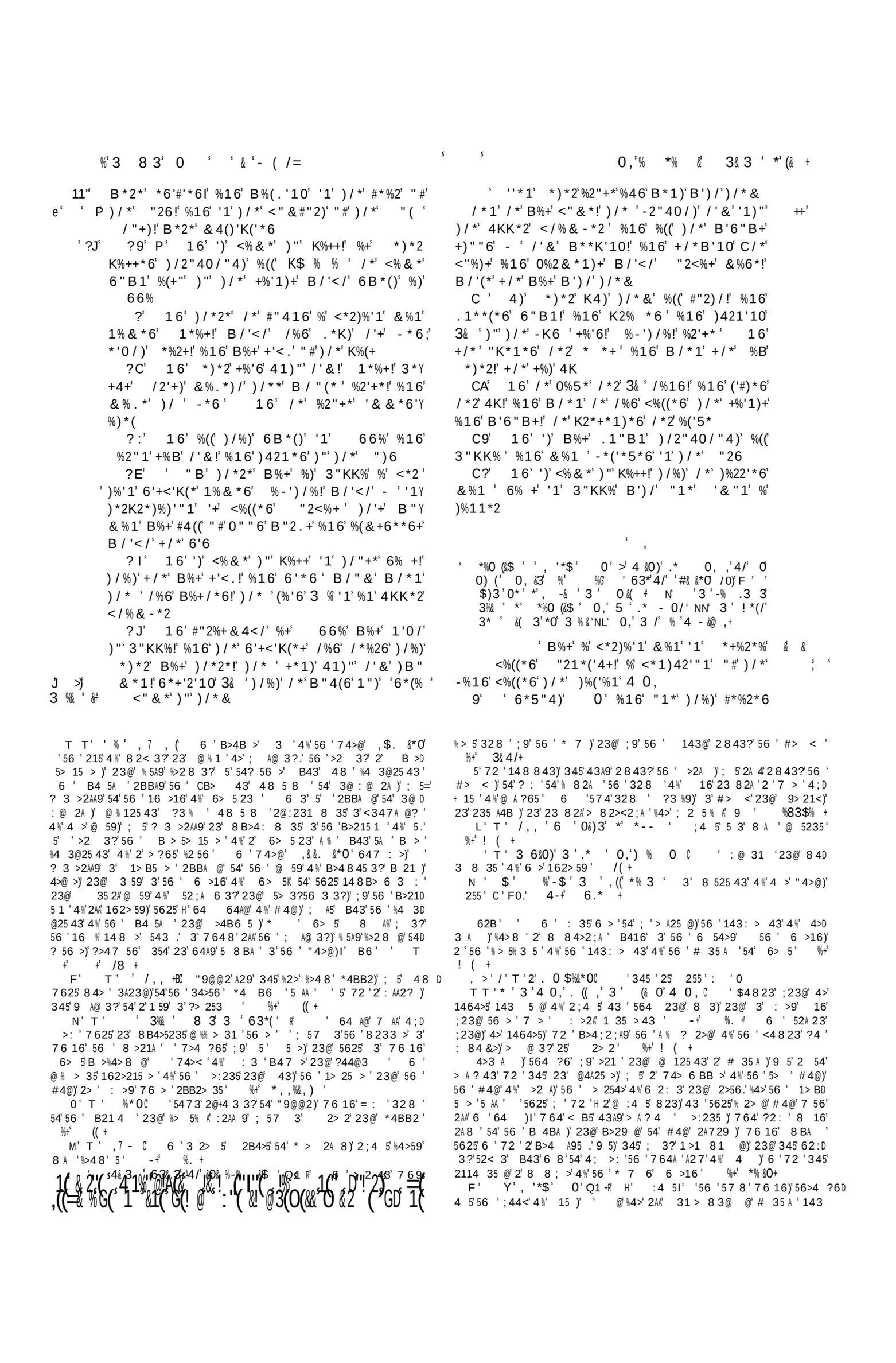
''&'' 16' B/*1' '&"1' +%B')/%)')/2"40/'
7' P (% '10' "1' "#')/*' %K"+)(*+' /%16+')/*' "('
/"+)'B%+' 0'5*1!'/*' "##*2*6')/*&'&"1* !
AL' % '10!' '5*'&*'%(+"')/'+'K"B*2!')/%)'
"1'B/"&+"*5*2' '(% '/%16+!'/*'&%'2*<*'5*'
)/*' "('/"+)
' 4)' *)*2'+%'6'41)"'/'&' / '&"1* '
K*2'+/'B')/')/**!'-*<%4+*')/"4'/%+)')/"40/)'
)/%)')/*' 0'#)' "#' "6' &% '-*' K42</%+*6'
B')/'&"1*
9A' /"4'/%+)'1*')/*2'K%2)'1"2'(")'1')/'+'
&%))*2'#"2')/' '/*%2)'+' 1")'2'0/)'1')/*'
+'0/)'"#' "6
99' *K*1)')/*2*#"2*"#)/'+')/' 'B'<.*6'
1*++!'%16'K2% ' "6!'#'K*2/%K+')/*')/"40/)'
"#)/'1*'/*%2)'&% '-*'#"20'5*1')/**
9?' "2' K*2<*'5*')/%)')/"4' %2)'1')/*'
0%((' "#'-'))*21*++!'%16'&0')/*'-"16' "#'1'Y
V4')

Y' ;';/*1'%1+B*2*6' '&"1!'%16'+%'6' 2% '
')"')/' "26'#"2'&*!')/%)'1"1*' "#')/*+*'
)/'10+'B/'</' *'/%5*'+K".*1'<"&*'4K"1'
&*
9:' 16')/*!B/*1')/*'/%6')*+)'#'*6'
%16'K2*%</*6')/*'B"26'"#')/*' "26!'2*Y
)421*6')"'3*24+%(*&!'%16'K2*%</*6')/*'
0"+K*(' '1' &%1 ' 5'((%0*+' "#')/*' %&%2'Y
)%1+
9E' 16')/*%10*(' "#')/*' "26'+K%.*'41Y
)"' /'('K!'+% '10' 2'+*!'%16'0"')"B%26')/*'
+"4)/'41)"')/*'B% ')/%)' 0"*)/'6"B1'#2"&'
3*24+%(*&'41)"' %D%!'B/'</'+'6*+*2)7
' ' 16'/*'%2"+*'%16'B*1)'%16!'-*/"(6!'
%' &%1'"#')/'"K'%!'%1'*414</' "#'02*%)'%4Y
)/"2') '416*2' %16%<*'V4**1'"#')/*')/'"Y
K'%1+!'B/"'/%6')/*'</%20*' "#'%((' /*2')2*%Y
+42*!'%16'/%6'<"&*')"'3*24+%(*&'#"2')"'
B"2+/'K

&3 J 45'43'2AA'5625'62@'; 3';2B5U@)'; 5'43' 48
0%'56 8)'164 3'4 5'23@'@ 53= 6@'%>48'56'> 52'%4>' 843'
P72'28437'564 '5625'7 >';2B3U@' -+ %. +
A' \+F%3'*%,' 3 ' *0/' '>48' 56 '215'4%' 843)'4%
7 637'54'B >162 ' B>5 2A'?%5 '7 56'843 9)'2AA'B >162 '4%'
B>5 2A'4%%1 '4>'BA21 ';9' 16' 4>@@'8 23'62';3)12AA@'
8439' %+ 3&4/+
'T' 8 ' ('3&'A-*6%' 47'3%35A9'8 52<3' '56 '
7>516)' %'6'56 3<'5625'56'?%5'4%'56' 4A9'#64 5'14 A@';'
;4 ?65'23@'B>41 >@';9' A:>'4>'?4A@.'54@'647'8 16'84>'
8 52<3' '6' 5AA)' %'6'56 3<'5625'56'B47>'4%' 32;A3?'456>'
54'143%>'56 '?%5'14 A@';'56 '2552 3@)'2'B47>'76 16'56'
B4 5A '56 8 A: '@@'345'B4 ' %+ &)3 **+
'T' 3/' *0/'-%& 3'6&3' 3 ' 6 'CB> 43'62'2A729'
; 3'143 @>@'>256>'2'B>4B6 5 12A'B>@ 15 43)'5623'23' 8B>12D
5 43' 843';9'56 ' 3% A'215' 5> 1<'25'56':>9'%4 3@25 43'4%'
56' 6> 5 23'%2 56)' 3' BB4 3?'5625'56' B4 5A '23@'456>'
6> 5 23'B >%4>8 @'56 >'8 >21A ' 3'143%>8 25 43'4%'5)';9' 48 '
6?6>'2>5'4%'8 2?1<'5623'5625'76 16'6'62@'A 2>3 @)'23@'5625'
56 9'14 A@';9'56 ' 28 '2>5'5 216'456>'54'B >%4>8' 8 A2>'74><'
%4>'239'45A >' 3@' %+ 3&4/+
6 '211 548 @U 2A'4%' 5' 5 >'<3@A @'25'56'4%% >'4%'56 '82D
?123)'23@' 3' 5>43?'A23? 2?'6'>B>4: '56'4%% 3@ >)' 69'
843 9'B > 6'7 56'56 al' & 5'2'56'#4 B A'4%' 6> 5'4B 3'56'
@44>'54'56'84 5' 3: 5 >25'4%% 3@ >)'6'3 3 25 '5625': 3' D
843' 8 ?65';'%4>?: 3K'H'$ B 35'@ >%4>'4%'56 '569'7 1<@'
)3)'23@'B>29'#4@)' %'B >62B'56 '564 ?65'4%'5A 3'6 2>5'829';'
%4>?: 3'56 I' 5'56'2@8 43'56' 33 >'829'>+4 1 K'6'
829'2A 4'52<' B'56'74>@'4%' 843)'76 56 >'B>434 31 @'%>48'
2%% 15 @'6 8 A59)'4>'%>48'>2A'1435>543)'H' >29'9 '54'56'"4>@'
*%' 8)'5625'343'4%'56 '56 3?'76 16'9'62:' B4< 3'148 ' BZ8'
8 I' % 6 %+
+F 'T' 3*$' %'&0' 3')(('* '4& %0 J' &9'56 ' CB> 43' '
8 235'56' 5>43? 5'4%';55>)'2'?2AA' '>1<43 @'54';'.'23@'56'
B6>2 ' ' @'6>'54' CB> '2'?>25'@ ?> '4%' 3' 4' 35'
CC C' /L)' @4A25>9' ' CB> @' ;9'56 ' >2 A5 '62:3?'28437'
56 8'H'2'>445'5625';2>56'?2AA'23@'74>8744@ I' '=4' ;'
8 '/0' -+ %. +
T T' 3'4*0,'* '&0&K$& /+' 23 3?'56'62>@ 5'4%'2AA';43@2?'
23@' A2:>9)' :3'5625'4%' 3% A'A 5 ' -+ 5 00+
F0' T' 0,'-% .3 ,' 3')* -,'&0' 0/''&(( ) ';'3' %F
A43>A' 6 '7 >'56' B4 5A ' :>'8 3@% A'4%'56'1488 43'
56 9'32@'>1 :@)'23@'4%'56'31 59'4%'B 55 3?'5'3' C 1 543'
3@'3'56 '3 5231'56' 54>8'>2 @';9'56'2@:>2>9'2?2 3 5'56'
6>16'5>3@'4 5'54'56'% >56>231'4%'56'#4 B A)';3?'82@'
56'8 23'4%'72%5 3?'56' @'4%' :23? A12A' 5> 56'54'@ 5235'
A23@)'3'4>@>'54'2'84>'BA 35% A'23@?%4>4 '62>: 5' -+ ! *

+T'$0*' & '63&.3 ,', %%= #2U2'72'25'56' 4 567 5
B4 35'4%'*@2' '345'<5'*@?'C:') 5'72'@ 5>49@';9
A C23@>'56'#>25)'23@' 4' 82@'@ 4A25 2'76 31' 5>2;4'@'
1>;' 5'2'62:3?';3)'23@' 5AA'1435 3 3?)'\'@ >5\' %#
((+
6' @)'H'76 16' '@ >5)I' 8'54';'2@@@'54'@ 53? 6'
56'#2U2'6>'8 235'%>48'23456>'#2U2' 3'56'5>;'4%' B6=3)'
' 6>43':'FL)E'345'%2>'%>48'56'BA21'76>'6 A B'0*''72'
%+ &)3&**&+
+ ' 0'*' &3&* ' 0' 0.(& 3' 3 16'4>'1628;>)'
A2 3'-+ %. + &9' 56 4B 2' '345'6>'54';'3@>544@'56
' 25 1<' 5A 4B 2)'4>'B2>5'4%' >2;2)' 4' 59A@'3'5A ' A@' 52D
8 35)';5'56'%>123' 56 4B 2)'A9 3?';A47' ?9B5)'B'56' 4 56'
B2>5'4%' %>12' 23@21'62@'A43?';3'56'328'4%'56'G 3'4%'
56'14 35>9)'2'7'A 2>3'%>48' A39)' 5>2;4)' 23@' 4)' %+
'((+)
T '3,'.* ' *' %$ (' *%' *'6*% 3&- ' 5' 'B>4;2;A'5625
6'62@' 8;>21@'56'* 7 6'%2 56)'62:3?';3'143:>5@';9'56'
* 7 '764'%>48' A C23@>2'829'62:' B> 2@'56 8 A: '354'
56 4B 2' %+ 3&4/+
625'?2:'56'@ 53? 6@' 56 4B 23'%2:4>'3'56' ?65'4%'
#4@'72'6 ' C5>24>@32>9'B 59)'76 16'A@'6 8'54'56'5 8 BA'
25'*>2A 8' 6'%28'4%'56'5 8 BA)'@ %% @'2;>42@'28437'
56' >>4 3@3?'325 43)';>4 ?65'8239'54' 3G >'1435 3 2AA9'
9'1431>3 3?'56'328'4%'56'"4>@I'764'> @@'3'5)'23@'54'
74>6 B' 8'3'56'14>5'2 ?3@'56 8'%4>'5A 25'B >B4)'76 16'
72'56>%4>'12AA@'56'14>5 4%'56'# 35A ' 8 43?'5* '128'
56'A4>@'4%' 56 4B 2)'764)' 3?2?@'2'6'8 5'4%'14>';'
;9'6'4%A 1'3'2'8 A5 BA 1 59'4%'74>A@A9'2%%2>)'23@'2@:231@'54'
56'6 ?65'4%'74>A@A9'6434>)'14 A@'%3@'5 8'23@' 31A 325 43)'5'
8)'*4'52<'2'A43?'+4 >3 9'43'2114 35'4%'>A?43'.'56 3<3?'
6 8 A%'3 :>'4'7 AA' 8BA49@)'2'76 3'255 3@ 3?'56'1 59'23@
14 >5'4%'56'?>25'! 3?)'3 :>'4'6?6A9'6434>@'2'76 3' %D
% >@'54'B>4 5>25'6 8 A%';%4>'*64:26)'56'#4@'4%' >2 A' -+
!*%0 +
64 ?6'23' 56 4B 23)'23@'8239'564 23@'8 A '@ 5235'%>48'
*>2A 8'+'564 ?6'2'= 25'4%% 1>'4%' 525)'23@'3 1 2>A9' 72AD
A47 @' B' 3'2'1>47@'4%';3)'9 5'6'128'P'54'*>2A 8'%4>'
54'74> 6 B I' 4'729'4'A43?)' 4'>?? @'23@'@ %% 1 A5)'34'162>?'
4>'35>5'4'@ 2>'23@?>25)'2'54'6 3@ >'2'?44@'8 23'%>48'8 3@D
3?'56'1431>38 35'4%'>A?>A2@'32>9'4112 43)'64 A@' C1 '4>'255 3@'
2 1' B43'BA21 '4%'B ;A1<'74> 6 B.'; 64A@'6>'2'8 23'5625'
564 ?65'5'345'8 16'54'52<'2'+4 >3 9'4%' 2;4:'%4>'564 23@'
8 A)'5625'6'8 ?65'2BB 2>';%4> '#4@' 3'56' 4A 8 3'BA21'4%'@'
:3'2@4>25 43)'56'BA21'76 16'#4@'62@'164 3'2;4:'2AA'456>'
B2>5'4%'56'74>A@'54'BA21' '328'56>





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*%0 (&$ ʻ% . 8ʻ3 O

11B#R ʻ /'+ʻ 72 ʻ @43 ʻ)/2'<* ʻ 23@ʻ)/*ʻ 5*++*(
ʻ Ú B%+ʻ 2*<*'5*6ʻ 4Kʻ %0%'1ʻ '1)"ʻ /*%5*1!
AIʻ "Bʻ B/'(*ʻ *)*2ʻ 6"4-)*6ʻ '1ʻ /'&+*(#ʻ
B/%)ʻ)/'+ʻ 5'+'"1ʻ B/'</ʻ /*ʻ /%6ʻ +**1ʻ+/"4(6ʻ
&*%1!ʻ -*/"(6!ʻ)/*ʻ &*1ʻ B/'</ʻ B*2*ʻ +*1)ʻ
#2"&ʻ "21*('4+ʻ /%6ʻ &%6*ʻ *1V4'2 ʻ #"2ʻ '1ʻ
&*1 +ʻ /"4+*!ʻ %16ʻ+)""6ʻ -*#"2*ʻ)/*ʻ 0%)*!
! AJʻ 16ʻ <%((*6!ʻ %16ʻ %+.*6ʻ B/*)/*2ʻ 'Y
&"1!ʻ B/'</ʻ B%+ʻ +421%&*6ʻ *)*2!ʻ *2*ʻ
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'1)"ʻ *+%2*%ʻ 16ʻ "21*('4+ʻ B%')*6ʻ #"2ʻ
)/*&!ʻ %16ʻ/%6ʻ<%((*6ʻ)"0*)/*2ʻ/'+ʻ.'1+&*1ʻ
%16ʻ1*%2ʻ#2'*16+ʻ !
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3%>8 5% ʻ4%ʻ 84>52A 59)ʻ A< ʻ 94 > A%.ʻ 2ʻ % AA47 1> 25 >)ʻ 764 ʻ
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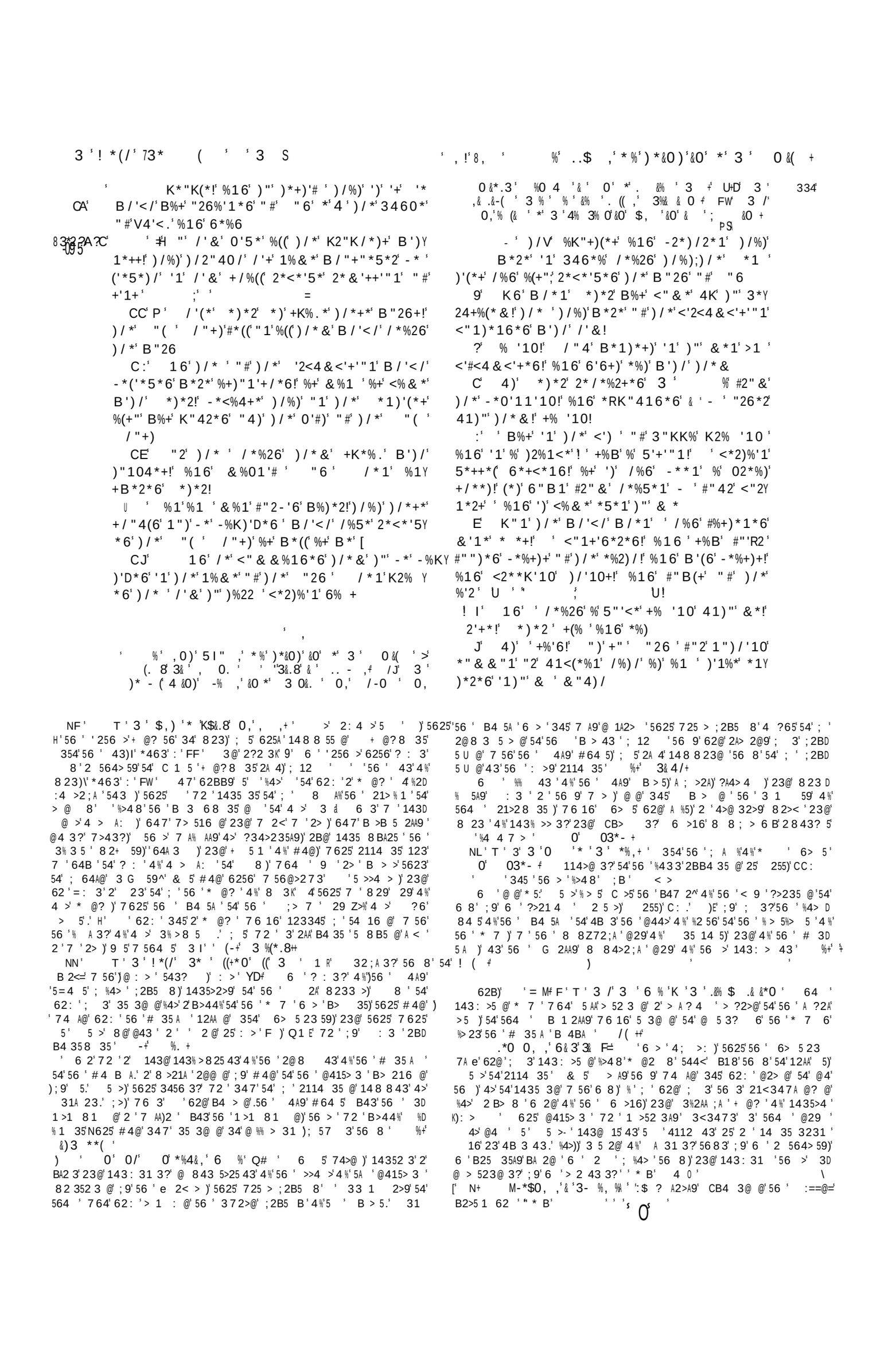

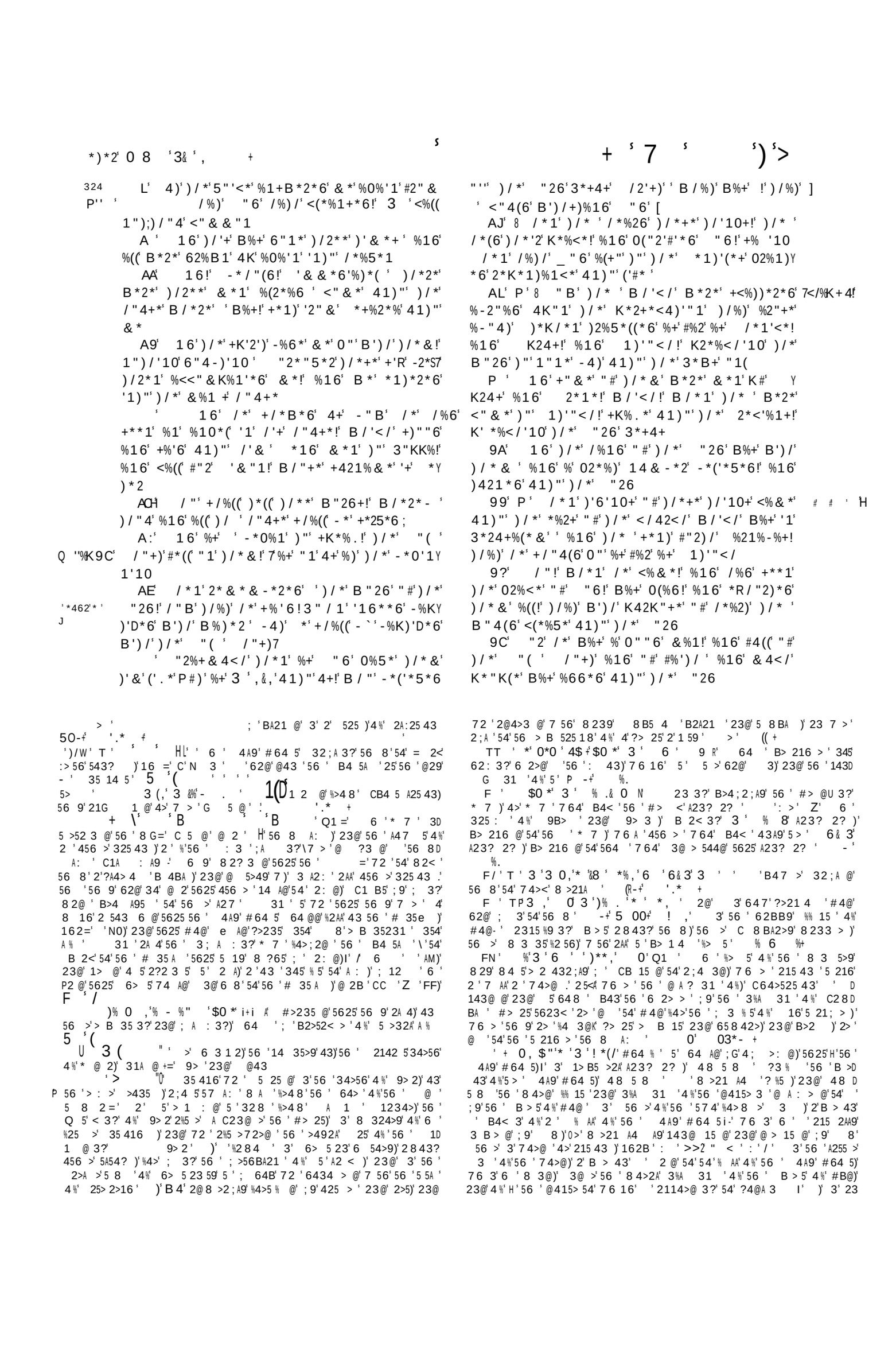

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9:' /*1' 6*K%2)*6' %21%-%+')"' %2+4+P
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)"' K%++!')/%)' %' B/"(*' *%2')/*' +*&-(*6
' >)&0)/*&+*(5*+' 'B')/')/*' </42</!' %16')%40/)'
&'.3$%*8 $14</'K*"K(*' 16')/*'6'+<'K(*+' B*2*' <%((Y
*6' /2'+)'%1+'#'2+)' '1' 1)'"</
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1%&*6' 0%-4+!'%16'+'01'#'*6'-')/*' +K'2')'
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41)"')/*'-2*)/2*1'B/'</6B*()'1'346*%
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'1)*16'10'%#)*2' %+)*2')"' -2'10'/'&'#"2)/'
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-4)' 'K2% *2'B%+' &%6*'B')/"4)' <*%+'10'"#' "2!'
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8 3 35' 8233 >)'U 2A4 '%4>'B>4845 3?'56 '5> 56)'23@'%4>'56 'B>21D
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;2' E>' ' (%8+
' T' 3',&.&-(' %'.((,' 3%& & 0 '7&%% I' 6' 3 8 '
4%'56 '#4 B A'62@'12AA @'56 8 2U2> 3 ' 3'1435 8B5)'23@'28 43?'
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76 16' 5' A29' B43' 5A 8?'%4>'56 '123345';' A '5623' 2'%>8'
;A %'4%'56 '@415> 3)'2'143 1 354 '4;@>21'54'56 'B> 1 B5)'
23@'2' C215'2'143%4>8 59' 7 '2>'12B2;A'4%'54' C28BA)'4%'
5625' 6> 5)'2%5 >'7648'7 '2>'12AA @' 0' 03*-+
6 '%4AA47 >'4%' 6> 5-'> A?43' 3' ; G 355 8 '?A4> @' 4'
8 16' 3'56 '328 ' >% 6> 523)'5625'56 9'74 A@'21<347A @?'34'
456 >';%4>'56' .'*'56 >' 3 8)'2A564 ?6' 625 @)'> : A @)'
54>8 35 @)'23@' 82>59> @'%4>' 5' 3@' 2AA' 764' 2>'12 @';9'56 '
328 '64 A@';'12> %+A5 ; A :'23@'B>215 '7625' 6> 552 ?65)'
54' 8 525' ' C28BA)'764'72' 82@'B >% 15'56>4 ?6' ' %D
% >3?)'54'1A 2:'7 56'B >B4 '4%'6 =>5'54'56'"4>@)'23@'54'2:4@'
2AA' 8233 >'4%' :A)'76 16)'76 3'56 9'544<'56 '328)'56 9' 4A 83A9'
> 34 31 @=' (*0H' 9 +'K ' '
FW' L'. '-%*-3 S >' 3 B>@'5 216 >' %+'! (' 5'
2 A' 3'@ %% > 35'B2>5'Z>%6 '7>5 3?' 3 8 >25 'B>4B6 19'28 43?'
56' :2>7 '?%5)';' 547 @' &B43' 56' : >2A' 8 8;>'4%'56'
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A23@'4%'* @ 2' '345'25" < ' ' ' 625' 3'56 'B> 35' 3D
5231'56 'A23@'4%'* @ 2' '8 235)' 8 'B>4;2;A'+%4>)'%'56 '@ 2>56'
62@' C5 3@ @'54' 9>2)'76 >' 35446'72)'4>'62@';' 3' CB 15 @'
56 >)'56 ' 6> 523' 3'5625'159'74 A@' 12>1 A9'62:';' 3'2;A'54'
> A :'564 4%'* @ 2' *4 B542'544)' B 2< 3?'4%'56 '@ 2>56' 3'
56 '> ?3'4%' A2 @ '2'62:3?'62BB 3 @' 3'* @ 2)'345'43A9)' 29'
3456 3?'4%' 5 ' C5 3@ 3?'54'456 >'B2>5)';' 5'5 AA ' A'5625' A2>?'
G 2355 '4%'14>3'7 >' 35'5 B'54'* > 2A 8 %548' 56 >'145 35>)'
/+' X&%. +' ' '5) '
' + ', % &0 ,' *A 0,' 625'14 AA@' 84>'143@ 1'54'
56'6434 >'4%'56'328 ' 4A25 A9'5= 3)'5623'5; %625'4%'162> 59)'
42?> 2;A'54'56 ' 8B4>5' %'5 A' 328 ..' >55 2' 2' > A %'54 = >'
;> 6> 3'2?2 3 5'56 '2BB>4216 3?'%28 3 ' 3' 03*- +=
' L *' 3' (,&% ' 6 '7>'B>43 2BB4 35@'%4>'56
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T T' 0,' $ AJ' 6'72' 5' 2 A-' 143@'+4 >3 9'54'* > D
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'345'25' 255'X'/' '72'82@'<3?'>%'5 > 2)'>21643 5)'
23@'456 >'B>4: 31 ';9'56 ' 8B >4 >' 2A ? A2.' 23@'54'56 '56 '
8B >4 >' A2 @ '2%5 >72>@'2@@ @'* @ 2'23@' 282>2' -+'
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6 ')' ' 3'56 ' 3 5231' > 82><2;A ' 6 > ' 72' 34' B4>D
543' 4%' 5 8 '%4>' 56 >59' 9 2>' ; %4> .' 4>' : >' 2%5 >72>@)' 3'
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TT '&0 0,&0)' % %Q /' 9' %5 j'56 'B2 4: >)\'5625' .'
2%5 >'56 '@29 '4%' 3A 2: 3 @';> 2@)'8 35 43 @'25': >'
3'23@'%>48'56 '5 8 '4%'56 ' B4 5A)'56 > '62';3'2A729 '
4; >: @'23'233 : > 2>9'% 5 :2A' 3' 8 84>9'4%' 6> 5-'> >> 1D
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3 %9 3?'*'%& +' 5' '4; >: @'43'56 ' 8@29'%4AA47 3?'56 '@29'
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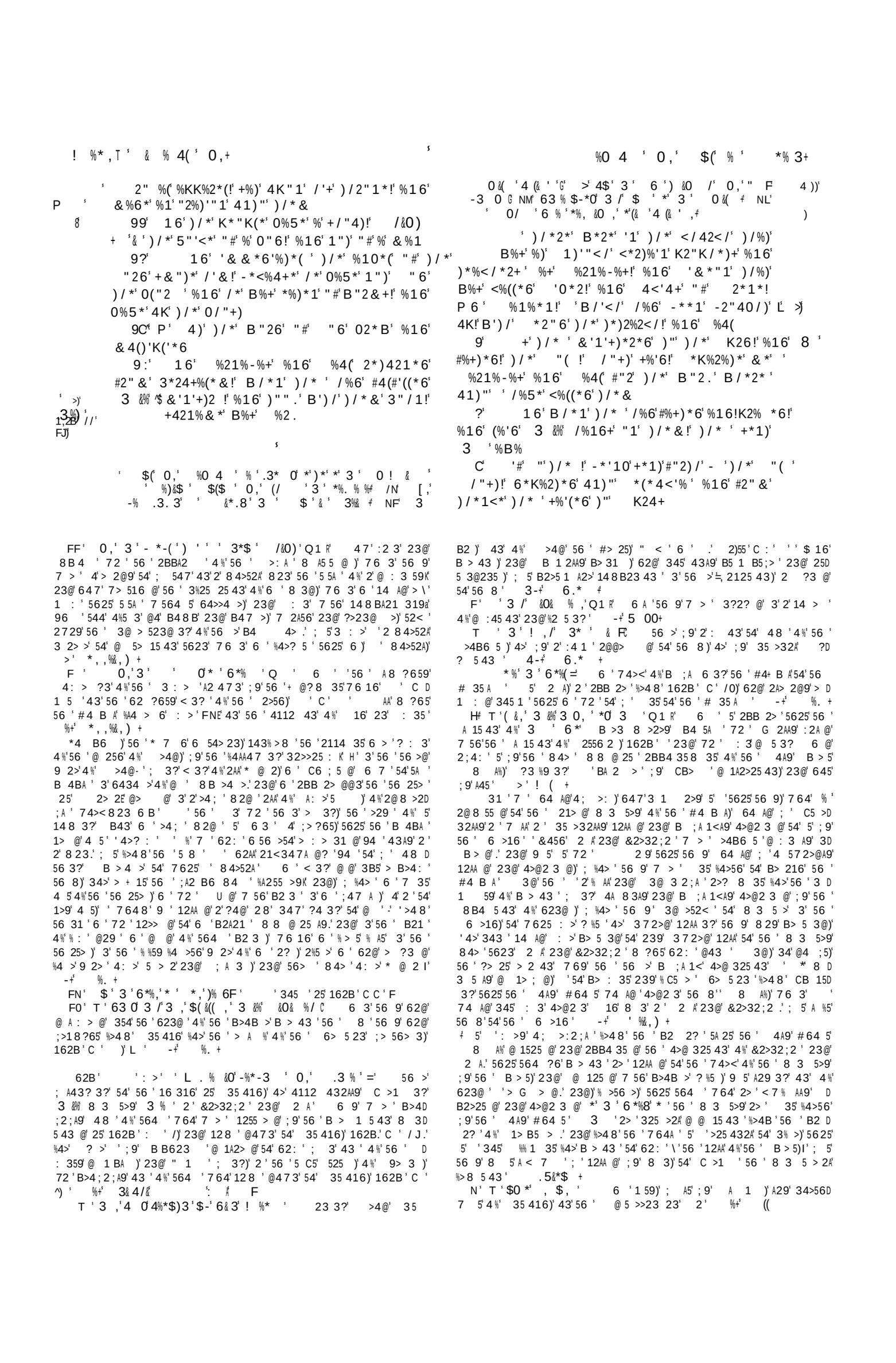
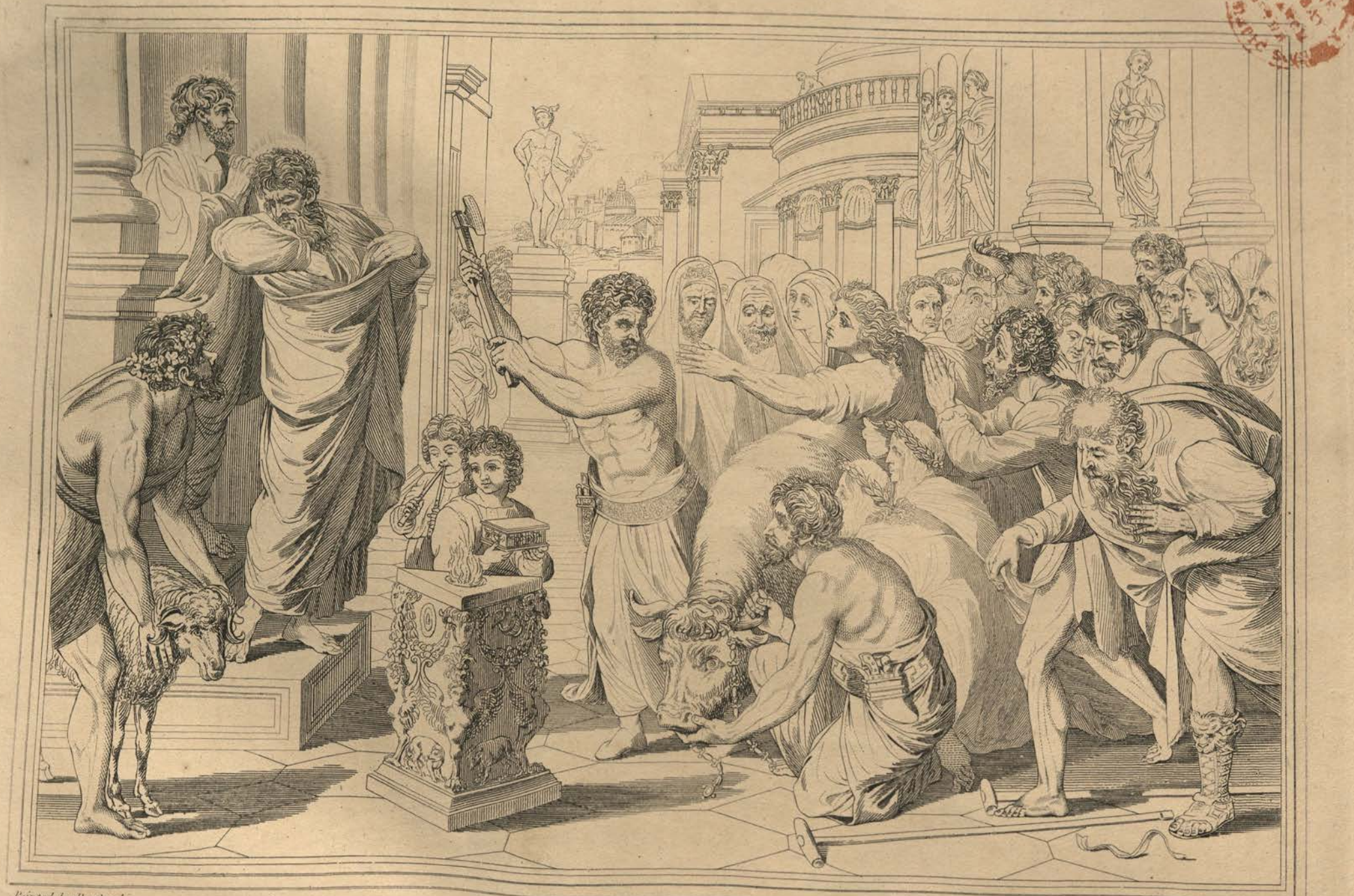


Painted by Raphael D'Urbino. *Engraved by H. Moses.*

ELYMAS THE SORCERER STRUCK BLIND.

Acts chap. xiii. v. 11.

Published by the Society for promoting Christian Knowledge, May 1, 1846.



Painted by Raphael.

Engraved by G.Cooke.

St PAUL AND St BARNABAS AT LYSTRA.

Acts C.14.v.13.& 11.

London, Published by the Society for promoting Christian Knowledge, May 1. 1816.

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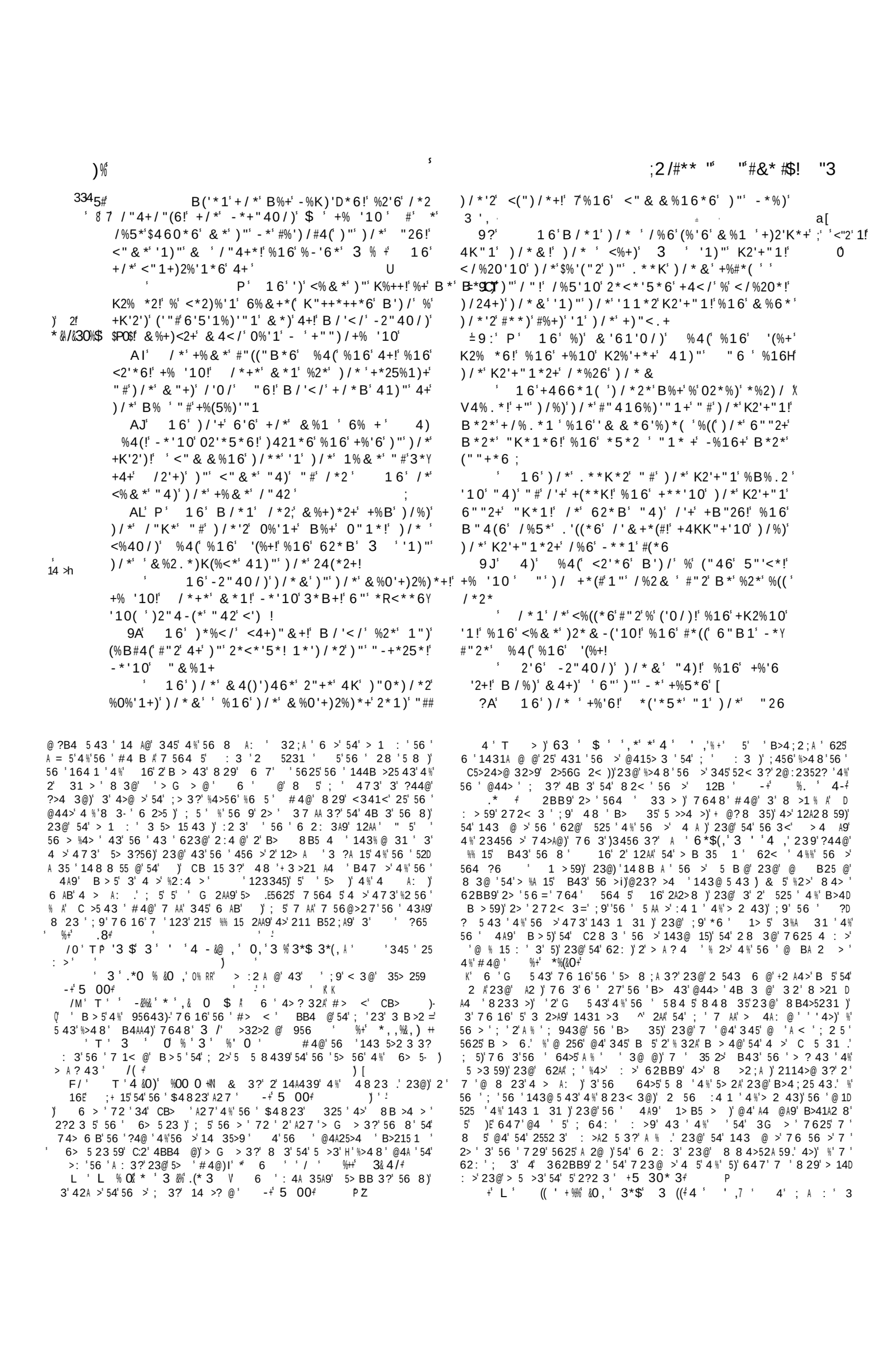

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%16'0"'1'K*%<*' ; &%1+!' %16' /%5*' <%+)' $' '1)"' K2'+"1' %16' 1"B'6"')/* ')/24+)' 4+' "4)'K2'5'('H1% '5*Y
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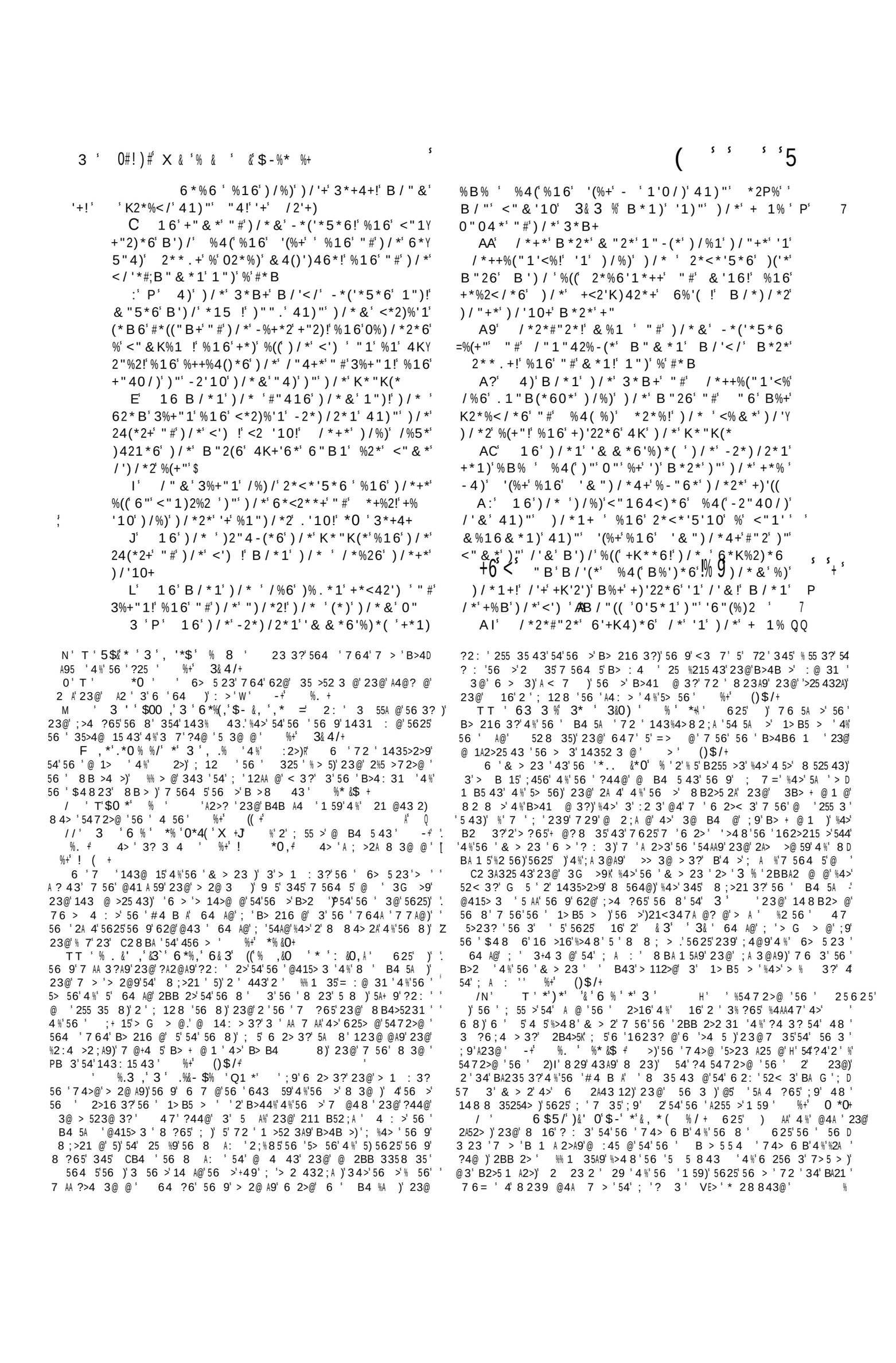

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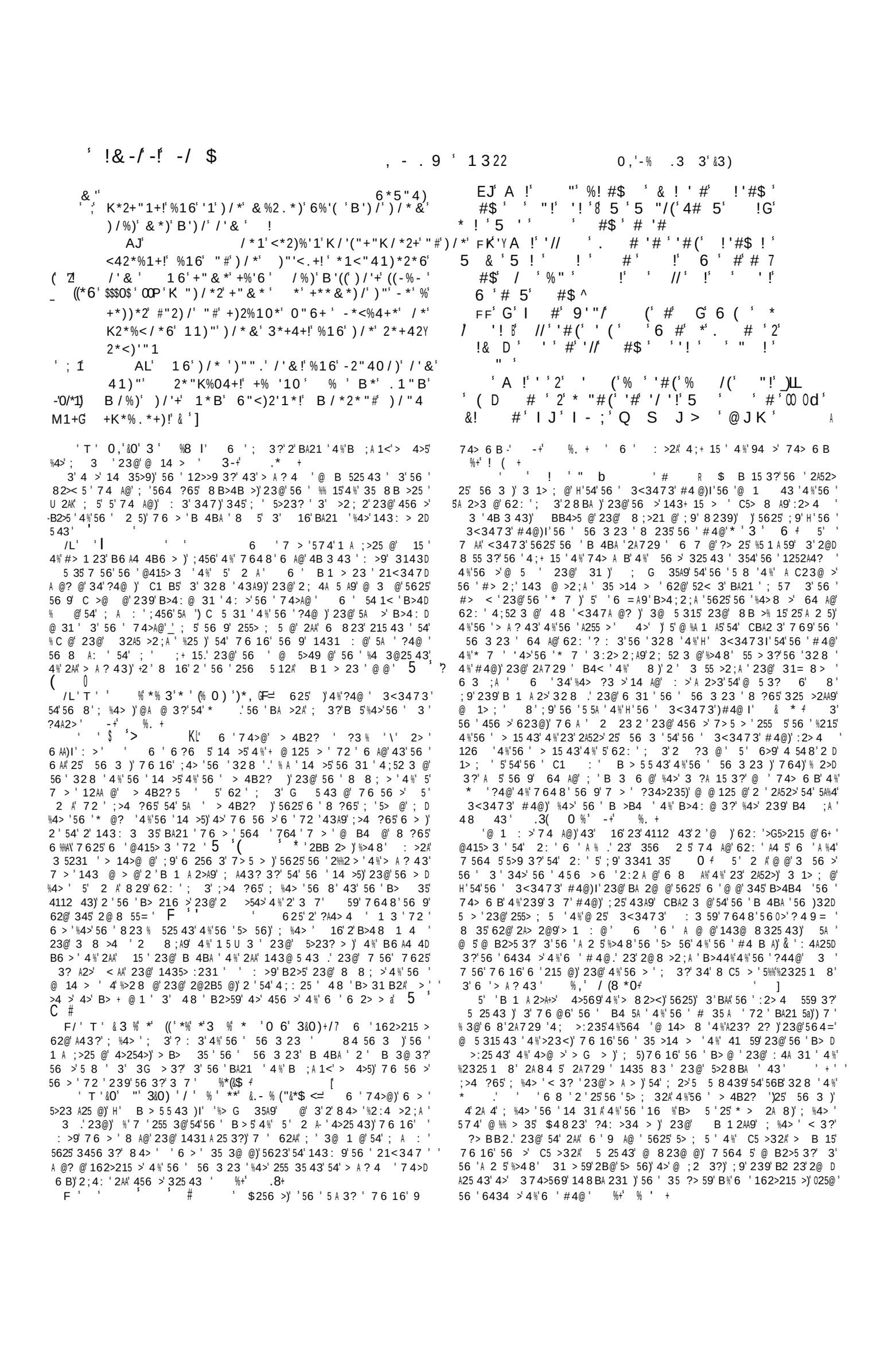

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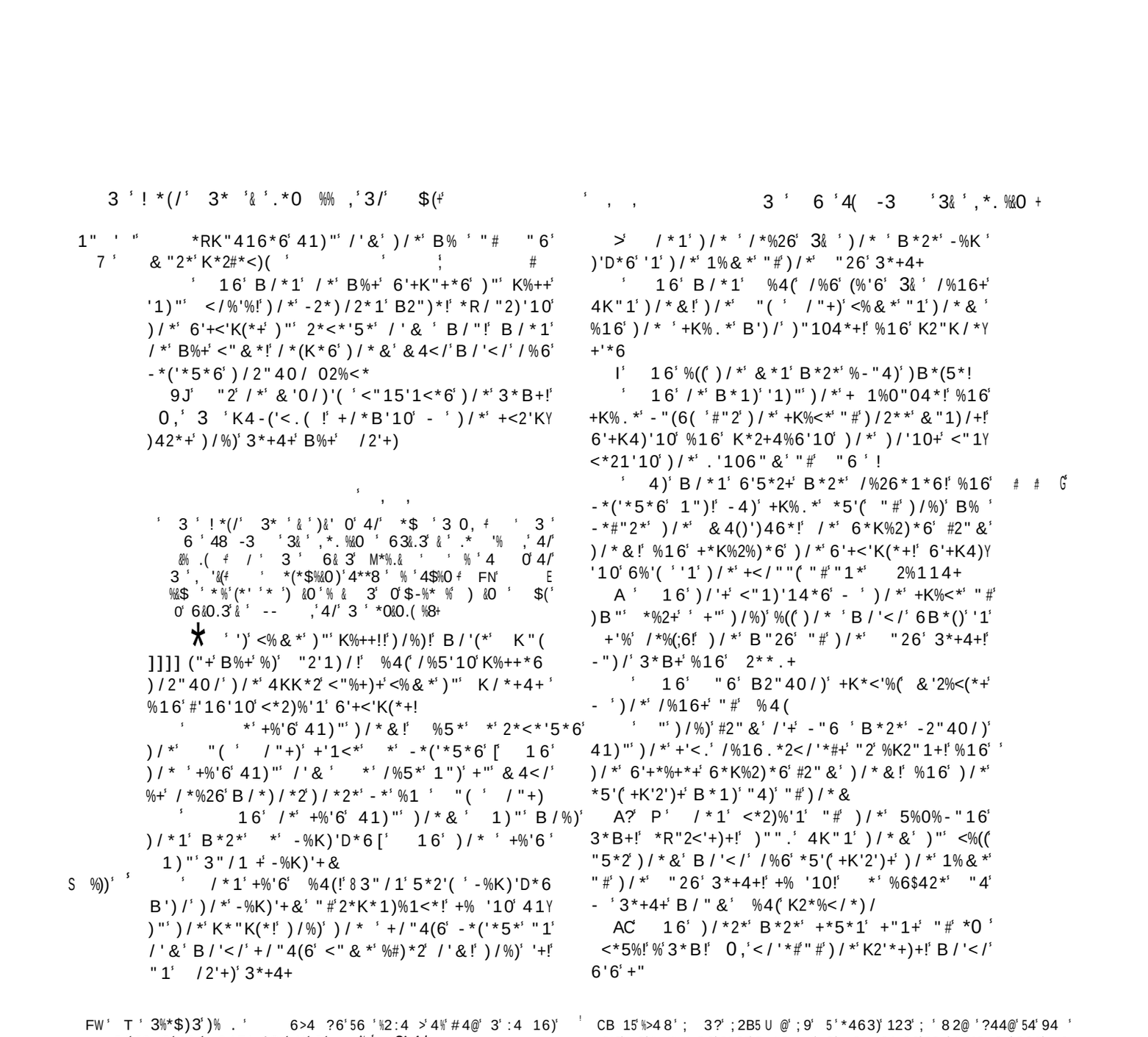

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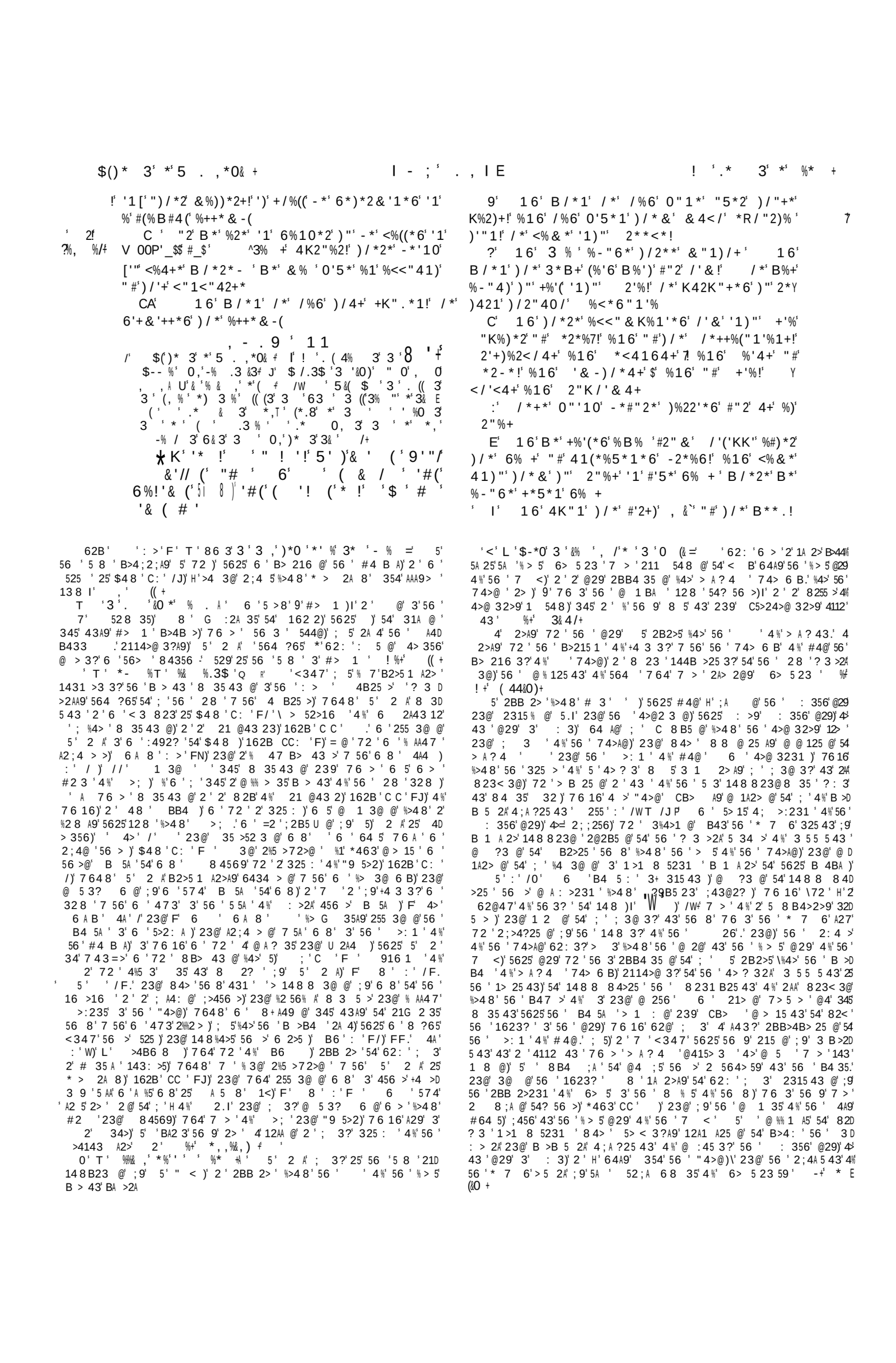

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64 A@' 62: ' 2A5 > @' 56 ' 74>@' 354' *' 3 2A' 23' CB> 43' 2'
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7 >' > 35; ' 23@' 456 >' %2A ' 2B4 5A ' 23@' , . & $(' 74>< 5'
2843?' 56' * 7 ' %+
+' 3 ,' 0' %& ' .+' 16' >' 98 325 ' 23@' A CD
23@ >)' 764' 82@' 6B7> 1<' 4%' 56' %2 56)' / 8 ' 'F .' 98 3 5'
23@' 6A 5)' 764' 52 ?65' 5625' 56' > > 155 ' 72' B2 5' 2A> 2@9)'
F' 8 ' '/L.' %4>' 5' 'B>4;2;A' 5625)' 3' 564 ' B 5A' 2@@> @' 54'
8 4569)' 56' B4 5A' B 2<' 4%' B > 43' @ B > 3?' B >3 148'
@415> 3 '25' B6 ' %+' 3&4/+
F' i'.* 0,'/*$' *' *,' Q1 R' /' > 148 8 3@' 94 '54' 56
B>4: @ 31' 4%' #4@)' 23@' 54' 56' ; A 3?' 23@' B>48 '4%' <'
#4 B A)' 76 16)' 7 56' 94 >' 473' 31 > ' 3@ 2:4 >)' 7 AA' 345' %2 A' 54'
< B' 94 ' 5 2@9' 3' 2AA' ;>2316 '4%' 94 >' @359)' 23@' ; > 3?' 94 '54'
56' 5 >32A' > 72>@' 4%' 2AA' 5> ' ; A : > ' /"+
H>+' '3 ' ' 3 6 ,'/*$' (3&0)' Q1 R' 843?' 456 >' 3 1 2>9'
6> 523' @ 5)' ' 62: ' 52 ?65' 94)' : 3' ; 9' 8 9' 473' C2 8BA)'
54' ; ' 3@ 5>4 ' 3' 94 >' > B 15 : ' 12AA 3?)' 5625)' 74>< 3?' 2' '
62: ' @43)' 9 ' 829' ; ' 2;A)' 345' 43A9' 54' BBA9' 94 >' 473' 7235)'
; 5' 2A 4' 54' BB4>5' 564 '764' 1233 45' 74>< ' 54' BB4>5' 56 8 @:7 '
-+' 5 00+
T T' '& ' *% '4(,' *')&' F' & 12)' 54'? : '>256 >' 5623' 54
> 1 :)' '23' 2>? 8 35' 4%' 2' 84>' 62BB9' B > 5' 23@' 5 8 B >.' 2A 4'
; 12 ' 5' 6 7 '2' 84>' 62BB9' 525' 23@' 143@ 543)' 23@' ; 12 ' 5'
7 AA' 62: ' 56' 62BB 3 ' 4%' 2' ?> 25 >' > 72>@' 3-+' &"* *0'
6 ' 29 3?' 4%' 4 >' "4>@' ' 345' > 14>@ @' 3' 239' 4%' 56' #4 B A)'
; 5' 72' @ A : > @' ; 9' 5>2@ 543)' 23@' 72' 25' 5625' 5 8 ' 7 AA' <3473'
23@' > 8 8 ; > @' 2843? 5' 6> 523 ' -+' 6 *0# 6' :23? D
A 5' 62: ' 2 > @' 3)' 5625' 56 9' 3 56 >' 35 3@ @' 5G' > A25)' '62:

3 G>8H %)' 3*24+%(*&' #"2')/*' 1%&*' "#')/*' "26

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A:' 16'%#)*2')/"+*'6% +'B*')""."'4K'"42'
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AI' 16'B/*1'B*'B*2*' <"&*')"'3*24+%Y
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B2"40/)'%&"10')/*' *1)'(*+'-' /'+' &'1'+Y
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9 ' 16'BP/*1')/*' '/*%26'&')/* '0("2'#'*6'
)/*' "26!'%16'+%'6'41)"'/'&' /"4'+**+)!'
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9A' 16')/* '%2*'1#"2&*6'"#')/**!')/%)'
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)/*' *1)'(*+')"'#"2+%.*' "+*+!'+%' '10')/%)'
)/*'"40/)'1")')"'<'2<4&<'+*' </'(62*1!'
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99' /%)'+'')'))/*2*#"2*[')/*'&4()'46*

&4+)'1**6+'<"&*')"0*)/*2'#"2')/*'B'((' /*%2')/%)')/"4'%2)'<"&*'

9?' "')/*2*#"2*')/'+')/%)'B*'+% ')"')/**
'/%5'#"42'&*1'B/'</'/%5*'%'5"B'"1'
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9C' /*&')%.*!'%16'K42'#')/ +*(#'B')/'
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.1"B')/%)')/"+*')/'10+!'B/*2*"#)/*'B*2*' /L
'1#"2&*6'<"1<*21'10')/**!%2*'1")/'10'-4)' 162B'
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9:' +')"4</'10')/*' *1)'(*+'B/'</'-*Y
('*5*!';'B*'/%5*'B2'))*1' 0,'<"1<(46*6')/%)'
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)/*'.**K')/*&+*(5*+'#2"&' 3&O)'"#(#*2*6')"'
'6"(+!'%16'#2"&'-("6!'%16'#2"&')2%10(*6!'
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' 16'B/*1')/*'+*5*1'6% +'B*2*'%(&"+)'
*16*6!')/*'3*B+'B''<('B*2*'"#' +'%!'B/*1'
)/* '+%B'/'&' '1')/*')*&K(*!'+)'22*6'4K'%((')/*'K*"K(*!'%16'(%'6'/%16+'"1'/'&!

9J' 2 '10'"4)' *1'"#' +2%*(!'/*(K' /'+'
'+')/*'&%1!')/%)')*%</*)/'%((' O'*5*2 'B/*2*' ;
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23 825'4 5' ;>2 5 ' : >9' 823' 8 5' CB 15' 48 ' ' >3?)' '8 5' ' > 2@9)' 345' 54' ; ' ;4 3@' 43A9)' 345' 43A9' 54' ; 2>' A >' : A ' 7 56' 6> 523'%4>55 @ '23@'B25 31)' ; 5' : 3'54' %% >'239' C5> 8 59'%4>'56 '328)'23@' 3'56 '12)'4%' 6> 5' % %+ /0' T' ' **8'$-'*$%'. %%&) A ' $256 >)' 9'7 ' ?45' 2AA' 56 3? ' > 2@9I'%4>'4 >'+4 >3 9' -+' %. +

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/L' T'$0*' *0 '9R' 5'*28 '56' B4 5A)'764'72'347'; 64B' 5625')'@ %>29'56 >' CB 3 '%4>' 3 %&O)'56 >'6 2@)'23@' 82< 3?' 4%'* > 2A 8' -+' 5 00# > '7 '%3@' 5'*28 '; 64B' 4%'* D > 2A 8)'6 'B> ;95 >'4>' A@ > '7 56'6 8)'23@'6 '@ 2143)'8 3D 543 @' : >'FL.' 23@' 4'7 '62: '> 2 43'54' ; A : '5625' 456 >'1 A D ;>25 @' 16 >16 ' 143%4>8 @'54' 56 ' 84@ A)'62: 3?' ; 64B)'B> D ;95 >)'23@'@ 2143 ' %+' 3&4/+

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' 0,'4' '.3 %) '6&3' 3 N %' ; '25' 162>? '%4>'56 8. ' 0,'4' '.3 %) '6&3' 3 N %' ; '25' 162>? '%4>'56 8. 4%' * > 2A 8' -+' 5 00# > '7 '%3@' 5'*28 '; 64B' 4%'* D > 2A 8)'6 'B> ;95 >'4>' A@ > '7 56'6 8)'23@'6 '@ 2143)'8 3D 543 @' : >'FL.' 23@' 4'7 '62: '> 2 43'54' ; A : '5625' 456 >'1 A D ;>25 @' 16 >16 ' 143%4>8 @'54' 56 ' 84@ A)'62: 3?' ; 64B)'B> D ;95 >)'23@'@ 2143 ' %+' 3&4/+

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F ' T' 03&.3' 3 ' ' ' '* '*0' 3 2N' 4 5' B>4;2;A9)' 56 ' :47' 4%' 2' 2U2> 5 ' '56 'A27 '1431 >3 3?' 2U2> 5 '25' 8 ; ':" FN)' T' -$%&/' 3/ (N >)' B2>25'569 A% I' 6 'B >%12D 543' 72 ' 2' B2>25 43' 354' 56 ' "4>@.' 23@' 56 ' B > 43)' 764' 7 >5 54' ; ' B >%% @)' 7 > ' 54' 2; 52 3' %>48' 1 >52 3' 8 25)' 215 43)' 23@ 62; 5)' 23@' 7 > ' 84>' B2>5 1 A2>A9' 54' ? 2>@' 56 8 A: ' 2?2 3 5 54 16 3?' 239' 56 3?' @ 2@' 4>' 31A 23' ' 8 ; ': 'D' W)' Z' -+ %. +

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9 16 /* <"&&%16*6 % <*1)42'"1)" .**K %4(! %16)"(*) 3& /%5*('-*2) ! %16)/%) /*+/"4(6#"2-'6'1"1*"#/'+ %<V4%'1)Y %1<* *%&'1'+)*2 "2 <"&* 41)" /'& 9C 16 %#)*2 <*2)%'1 6% +! B/*1 *('R <%&* B')/ /'+ B'#* 24+'((%! B/'</ B%+ % 3*B*++! /* +*1) #"2 %4(! %16 /*%26 /'& <"1<*21'10)/* #%')/'1 /2'+)!

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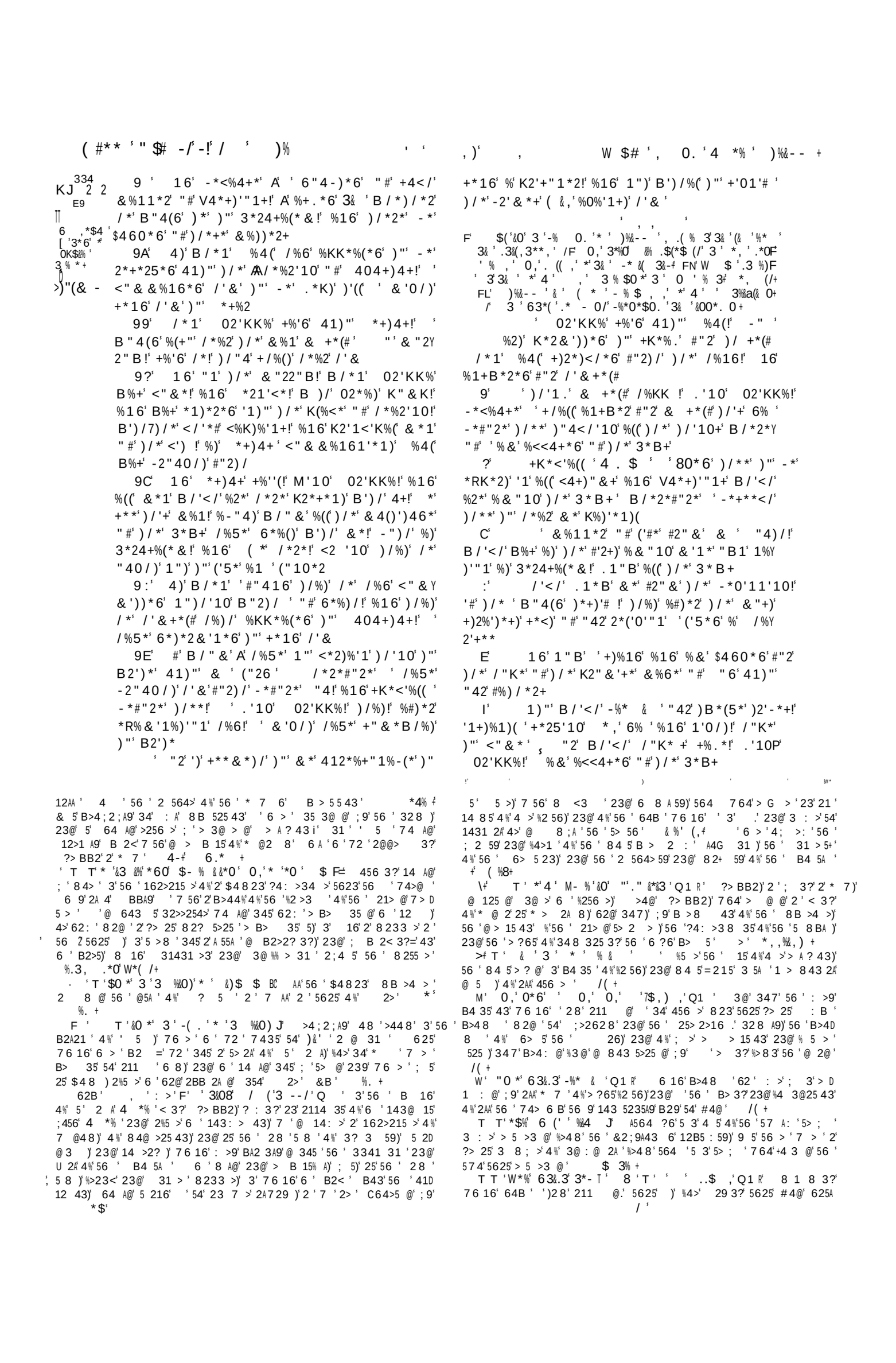
4 (& '&0) ((3&0) 63&.3 % 6%& 0 Q * 3 82< 3?6 473 @ % 31 5 2 A 82< 2A 4 56 @ % 31 4% 6 > A ? 43) 7A 16 143 5 @)6 8BA)3 ; A : 3?2AA 5625 56 A2 7 62@ B> D % ? > @)23@ 56 >4B6 5 %4> 54A@) .*0. %0&0) 3 26)23@ 56 12 3?4%56 # 35 A $ *4% + + A /0 T 63&.3 3 /3 ((* ((*6 N 625)5A 3 %& 23@ 56 ; A< 4% 56 325 43 T T 4*3 * 3 7$ 0, A07 +N 6 62>)?1113%@ 3? *4 B6)> 5>2 3 @ 56 > >> 15 43 54 56 + 5)143@ 8 3 3?56 3+ 5 54 B >B 5 2A 54>8 35 7 564 5 > >> 15 43 31 56 74>@)8 2>< 3?56 @ %% > 31 ; 57 3 56 > >> 15 43 CB 15 @ ; 5 2 A 23@ 5625 CB 15 @ ; 56 62> > 3&4/+ *6 % 0/ / % N %5 >8 239 9 2> 4% 2; 31 %>48 * > 2A 8 B> ; 2; A9 2; 4 5 C -+ %. + . * 4%&0) (N 5 2BB 2> %>4 8 = 6 A4) 5625 5 72 1 54 8 2>9 %4>56 * 7)647 > @ B > @) 54 3@ 4%% > 3? 54 * > 2A 8 -+ %. + FF T=3 &0) *% - . 3&*6(,) * 3 6 /7N A C) 62:D 3? 3 8 239 9 2> ?4: >34 >4% * @ 2) 23@ 62: 3? 62@ 6 >D @ 31 25 2> 2) 76 > 3 4>3 A 56 1 35 > 43 23@ 6 %> 3@ 7 > 143: >5 @) 76 > 5 6 A B 56 :23? A 5 @ 7 A5) 23@ 76 > 56 > 7 > 8 239 @ 1 BA) 162B CC L))62@ 56 4BB4>5 3 D 5 4% 148 3?21G 2 35 @ 7 56 9 56 729 I 4% 6> 5 23 59 ! 3&4/ >56 ! 23 3? 8 29 2: 3? ; 148 ; 55 >21G 2 35D @ 7 56 6> 5 2>> 59) %>4 8 56 2114 35+ 5 ? : 3 ; 9 5 2 A FN T 6&3 3&6& %$ &((N > 2 72 56 @2 ?65 > 4% >4@ ?> BB2) 8 35 43 @ 25 162B C /)J A C) 76 3 B>4D 1 >254> 4% * @ 2) % AA 3 A4: 7 56 6 >) 23@ @ 1 @ 6 >%>4 8 6 > 6 ;23@ U U) < 3? 4% 56 8 ? 23) B> :2 A 3? 43 6 >) ;9 8 23 4% 6 2? 35) 54 G 5 6 > 6 ;23@ 23@ 8 2>>9 6 8 &9 56) 6 6 7 @ ; 456 6 3+ 51 23@ 31435 3 31 - %.



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8' /%K!' %' X? P' 7H /*2*4K"1' %+' 'B*1)')"' %&%+<4+' B')/' %4)/"2)' '%16' <"&&'++'"1' #2"&')/*' </'*# K2'*+)+!

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>2 @' B'%> >>'56 '@ 2@'* '7648'56 9'62: '1> 1% @)'23@'562' 56 '* ' '56'64B'4%' >2 A)'162B)'CC: 'F .' 48'4%'56 8' 82 352 3 3?' 5625' 56 > ' '34' > >> 15 43' 4%' 56 '@ 2@' 25' 2AA)' 23@' 456 > '@ 39 3?' 5625' 6> 5' '> 3'%>48'56 '@ 2@' * >' 3&4/' ' 3'56 'B2 2?'7 '62: '56 ' 5> 3?56'4%'56 ' B4 5A -'2>? 8 35' 54' B>4: '56 '5> 56' 4%'56 '89 5 >4 '@415> 3 '4%' 56 '> >> 15 43' '%> 5' 6 7 '5625' 5'72 '345'2':2 3'56 3?'54'; A :'56 '@415> 3 ' ; 12 '#4@'62@'B>48 @' 5)' : >'W' '4>'34'5>2@ 5 43'4%%256 >)' 34' 143+ 15 > '4%'B6 A4 4B6 >)' 34' B47 >' 4%' 325 >)' 14 A@' ; '2' %% 1 35'%4 3@25 43' 54' ; A@' 16'23'2>5 1A '4%'%2 56' B43'? 34D 56 3?' 64>5 4%'56 'B>48 '82@';9' #4@'\F@)' 625' 5'72 '345'2' 3 7'@415> 3 ' 52>5 @';9'6 8'54'@ 5 >;'23@'B >BA C'56 '8 3@'4%' 8 3'.' 5'72 '2'B>48 '82@'54'9'4 >'%256 >)I'5625')' 5'72 '3D :4A: @'23@' 8BA @' 3' 56 '?> 25' B>48 '4%'56 ' 26)'23@'56 ' 62BB 3 '4%'56 '74>A@'54'148 ';9' 8.'56 '% AA'23@'148BA 5' 3+498 35'4%'76 16'62BB 3 '8 5' BB4 '2' > >> 15 43' %>48' 56 '@ 2@' @)' 625' 5' '345'23' 3> 2 432;A '@415> 3 ' H' '4>' 769' 64 A@' 5';'564 ?65'256 3?' 31> @ ;A '7 56'94)'Q1 I' 3'56 '56 ' B4 5A '62' 6 73' '56 '5> '8 564@'4%'2 >5 3?'23@'@ % 3@ 3?' 56 '89 5 > '4%'56 ' 6> 523'%2 56.' 328 A9)' 345';9' 3@ >52< 3?' 54'@ 843 5>25)';9'325 >2A'> 2 43)'56 3? '7 6 16' 2> ' 312B2;A '4%' 5.' ; 5';9'%> 5'B>4: 3?'56 8'54';'56 ' ;+ 15'4%' : 3 '> : A2D 543)'23@'56 3' 6 7 3?'5625' 56 > ' ' 34' 4;+ 15 43' %>48' > 2 43)' 76 16' 123' 82< '5625' > : A25 43' 31> @ ;A ' -+' &((&0)7(+ L' T'%0.% ,&4(' 6& 3'/*$7 ' 56'94 '* 7 '.' ?> BB2)' 7618'6' 2@@> @)' ; 3?'2'* 7 ' -+' %. +' :A ?> BB2' 72 '23'4; >:' >'4%'56 ' 4 2 1<'A2 7.'23@)'2114>@ 3?'54' 6 '473' B> 31 BA)'4 ?65'54'; A :' 3 'B4 ; A 59' 4%'2'> >> 1D 543' 4%'56 '@ 2@K 23@)' %'6 '1431 @ @'56 '2 '2'? 3 >2A'2>? 8 35)' 5' 2 A'72 '> 2@9'54'B> '5> ' 1431A 43K 69' 56 3' @4' 94

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/L'T' *0)' 3 '63&.3' %' 0.&&, ' 6 '74>@'2>'345 54';'+4 3 @' 7 56'564 '5625'%4AA47' 6 ' 3 ')' 625'56 9' 829'> 1 :)';9'%2 56' 3')'%4>? : 3 '4%' 3)'23@' 36 >5231' 2843?'56 8'76 16'2> 2315% @ I' -+' %. + FF'T' 3'-%*-3 ' 0,'5* F= 4 ' '8 35 43 @' B2>25 A9' %>48'56 '456 >' >4B6 5)'2';' 3?'56 '?> 25'A27?: >'4%'56 '* 7 F' 3 ' 3%& ' 3*,,' $ %$256 >)' 625' 6> 5' 64 A@';' 2' %% > 3?' 3)'2' %% > 3?' 2:4 >' -+' %. ' /(+ ' 2' A"')'Q1'

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9:' 4)' /*' +%'6!' '%&' 1")' &%6!' &"+)' 1"Y -(*' *+)4+' -4)' +K*%.' #"2)/')/*' B"26+' "#')24)/'%16'+"-*21*++
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.'10' 2"+*'4K!' %16')/*' 0"5*21"2!' %16' *2' 1'<*!' %16')/* ')/%)' +%)' B')/')-*16
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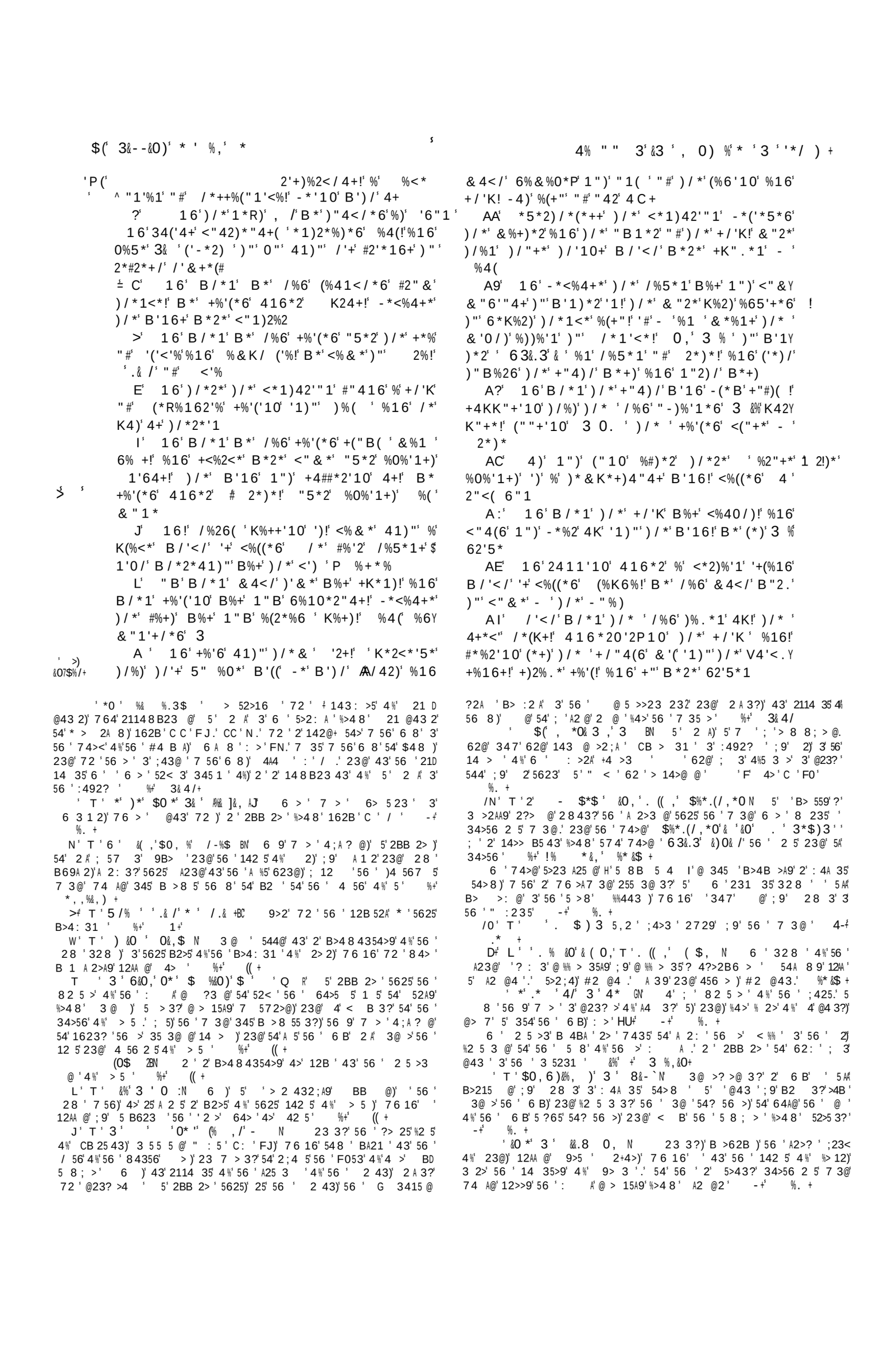

Painted by Sir James Thornhill.

Engraved by G. Cooke.

ST. PAUL SHAKETH THE VIPER FROM HIS HAND.

Acts. C. 28. v. 5.

London, Published by the Society for promoting Christian Knowledge Sept. 1. 1816.

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99' O' 6 ' 80*6' 3 ' ' %/' 63 % ' &&' & ' -*8 0') &0 &' *'
+ / "4(6' / *2*' "-+*25*') / *' +)2'<) ' 5*2%<') ' * ') / *' / '+) "2'%1!' '1' K4-('+ / Y
'10' +4<' / %1' *RK2*++' '1' "#') / *' "KK"1*1) +' "#' / 2'+) '%1') ' 2' %16' / '+'
<"1#'6*1<*' '1') / *') 24) / ' "#) / *' "+K*(' 4-+' 6 . * +

9?' O' & & ,' 3 '8&0) , * ' * ' * , ' *+) '#'*6') / %) ') / *' . '10Y
6"&' "#' "6!' B / '</') / *' *RK*<) *6!' 4 . *' ''' 9 :!' ? J2' R'R!' AA!' B%+'
%(2*%6 ' <"& *!' %16' K*2+4%6*6') / *& ' "#) / *') 24) / ' "#) / *') / '10+'
B / '</' / *' %++*2) *6' <"1<*21'10') / *' -'2) / !' ('#*!' & '2%<(*+!' ` <' "#
3*+4+' /2'+) ' *' *RK"416*6') "') / *& ' B / %) ' 2*(%) *6') "') / *+*' ;
+4-$*<)+' "4) ' "#) / *' %B' %16') / *' 2"K / *)+!' %+' /2'+) ' / %6' 6"1*'
) "' '+' 6'+<'K(*+' %#) *2 '+' 2*+422*<) '"1!' 4 . *' RR'5 ' !' 9 I 7 %+'
3& 4 /

9C' 0 , ' * ' 4 (& ' , ' O' 0 , ' * ' 4 (& ' , ' 0* +' *' <%11") '
K"++'-(' / %5*' % +) 2"10*2' K2"'"# "# <%16"42!' "2' (*+' 6'& "+') '"1') '"
R) "(%16' & %01'# !) / %1' '1') / '+' 6<(%2%) '"1' "#) / *' *##*<) ' "#) '
%4(+' K2*%<' / '10') "') / *' 3*B+' #2" & ' & "21'10') '((*5*1'10!' "1' / '+'
#'2+) ' %22'5%(' %) ' "& *' %.3 , .*0' (/ +

9:' & L' 4 / ' & ' 3 ' -%*-3 ' / '+' K%++%0*' #' "& ' +!' 5' ' L!' '+'
%KK('*6' - ' /2'+)!' %16' "<<42+' #"42') '& *+' '1') / *' "+K*(+!' ^+**') / *
& %20'1%(2*#*2*1<*+!N %16' '+' "1<*' %0%'1' *& K(' *6' - ') ' %4(' '1'
) / *' K'+) (*') "') / *' "& %1+!' " & ' R' 'A +' %+' *, , %&,)

I - ; ' . , I E

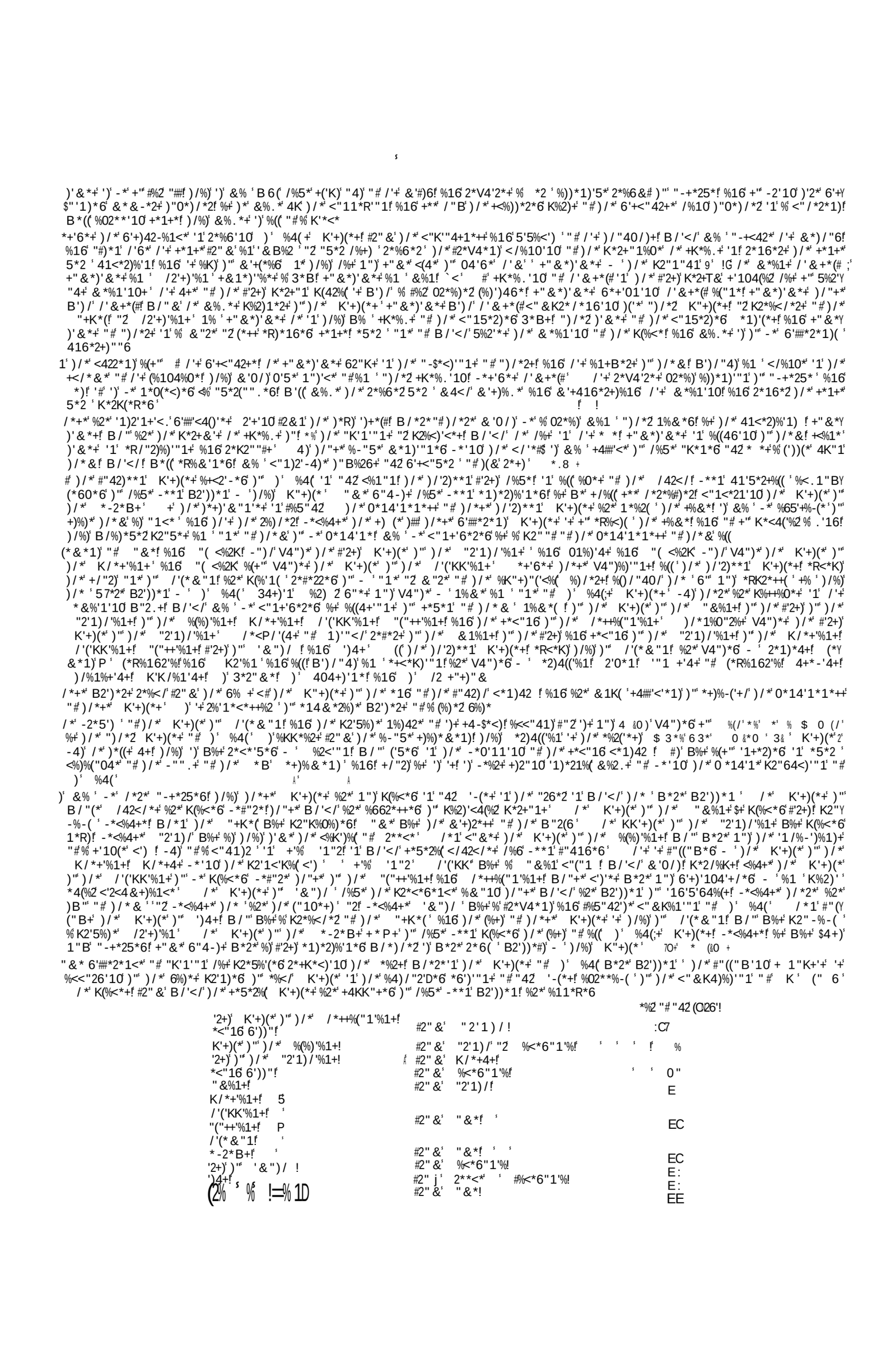
K"B*2+!) / * ' B*2*" "KK"+*6 %16 /%2%++*6! %16 K*2+*<4)*6 - ') / *&! *5*1) "" 6*%) / ! B') /) / * &"+) +12*(*1)'10 <24*() ! %16 %'( ) / "+* B / "" * & -2%<*6) / *'2 6"<)2'1*+ B*2*" *RK"+*6) "") / * +%& * /%26+ / 'K+ T =%16 +4' *2'10+!

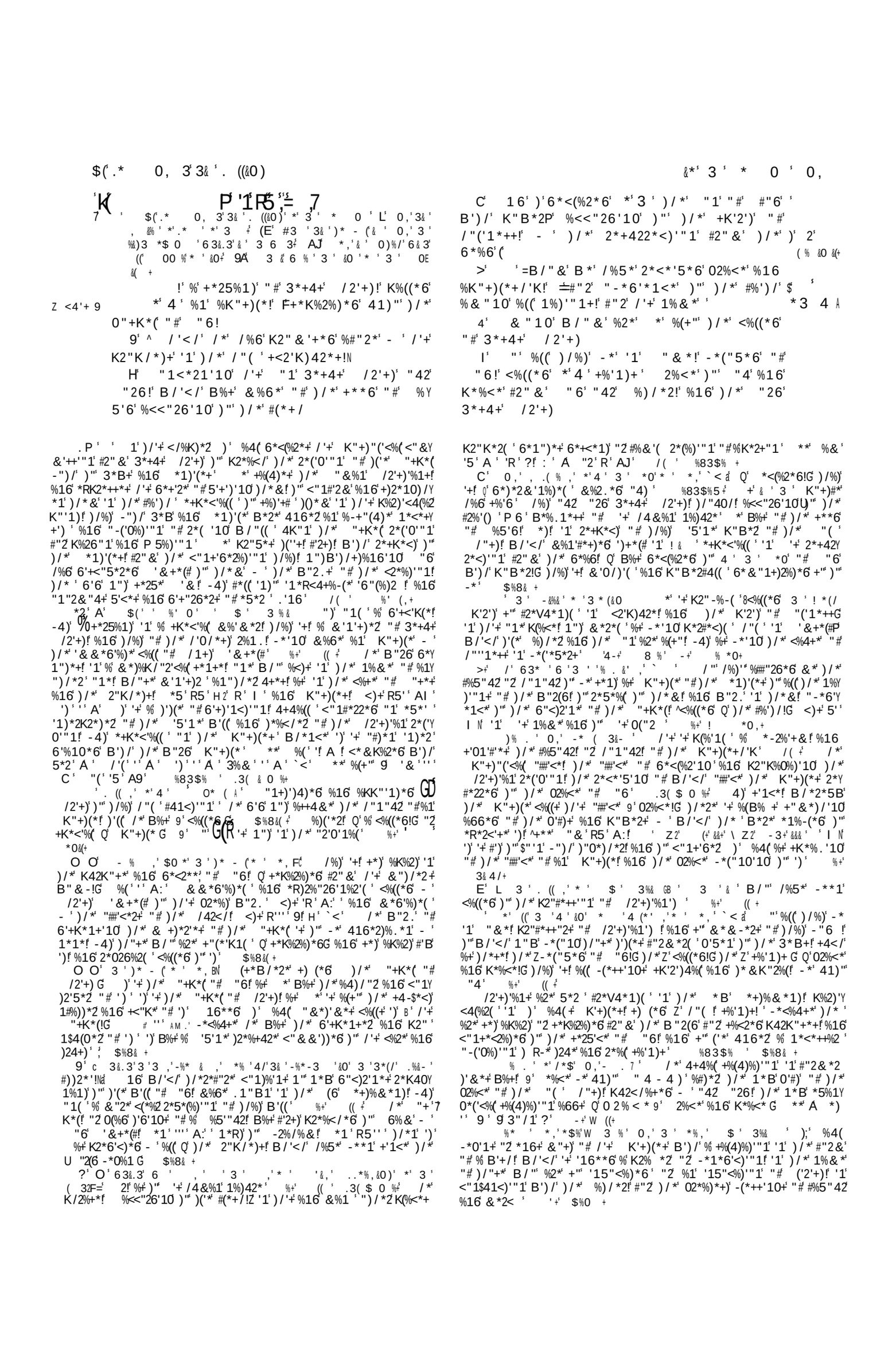
+ ')') / *1 <2*6'-(*!) / %)! 416*2) / *+* <'2<4 &+)%1<*+!) / * 1*B 2* ' ('0'" 1 +/ "4(6 /%5* +K2*%6! & *2*(' - ') / * 1%)42%(K"B*2+ "# ')+ #'2+)' K2"K%0%)"2+! '1 +"" +/ "2)' % +K%<*! "5*2 +"" (%20* % K%2)' "#) / *) / *1 . 1"B1 B"2(6! B') / "4)' %1 ' +4K*2'"42 %++'+)%1<* "2 <""K*2%Y

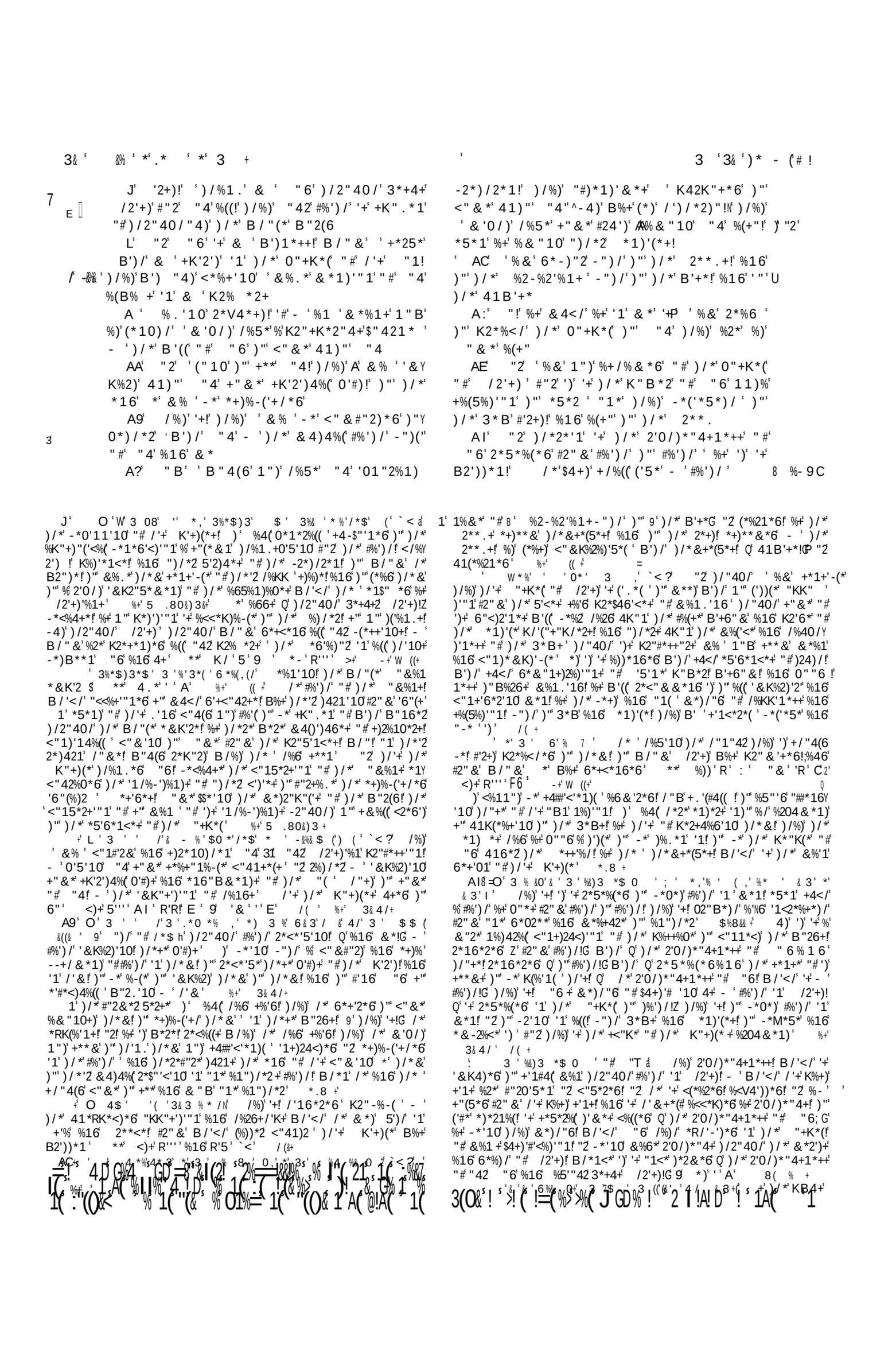
)'"1 ['6 %1 ') / '10 "#) / * . '16 *5*2 /%KK*1 '1) / * B"2(6 -*#"2* "2 +'1<* [ ) '+ K(%'1(' 41K2*<*6*1)*6 %16 '&K"++'-(* +) / *2*Y #"2* %((/ 4 &%1 &*%1 "# +4<<*++ B*2*' %0%'1+)') / * &! B / %)' *(+* / 4)' +4K*21%)42%(&*%1 B*2*' (*#)' #"2) / * &'N) ' + <(*%2 %(&"+)') "" 6*Y &"1+)2%)'"1!) / %)') / * ' &4+)' /%5* -**1 *16"B*6 B') / ') / "+* &'Y 2%<4("4 K"B*2+W %16 #%5"42*6 B') / ') / %)' '5'1*' %++'+)%1<*!) "" B / '</ ') / * ' K2*)*16*6! %16 B / '</ ' "# <"42+* K2"5*6) / *&') "" -*) / * &*++*10*2+ "# / *%5*1 ' 7O+ *% $ +

/ *' #"((" B'10 /%K)*2+ #2" &' / * <)+ "#) / * K"+)(*+ %2* %KK"'1)*6 #"2 2"K*2 *++"1+! "2 %+)B)'"1+ "# <2'K)42* #"2 K'+)(*+! "1 416% + %16 "(6% +

	5*2' AO A9!	+<*1+'"1 #\% !	K'+)(*'		5*2' ?CO CC!	"16% ''1' %+)*2 B**.!	K'+)(*'
	;'] ' A:O 9E!	)' %))/'%+!	'))"'		O' ?CPO CJ!	/') 416% !	"21'10
	O' O !	/') 416% !	'))"'	,	Q ' ?CO CJ!	"16% ''1' /')+41 B**.!	K'+)(*'
	O' 99O CI!	%+)*2 % ! !	5*1'10'	,	O' 99O ? !	)' %21%-%+!	'))"
		)! *)*2!	"21'10'	, #	O '9 I 7%1 6('		
		"16% ''1' %+)*2 B**.!	5*1'10'	,	)"' 5*2' ?!3'	)' 3%&*+!	'))"
		)' *)*2!	'))"	,	5*2' AO 9 !	)' '</%*(!	"21'10!
	5*2' A9 AI!'	)' %2)/"("&*B!	K'+)(*	,	O' A?O 9 !	)' *)*2!	K'+)(*
	O' J' %16;'	)')*K/*1!	"21'10	,	O' 9EO C9!	4*+6% ''1' %+)*2 B**.!	'))"
T ' , '	54 : >')*	'))"!	5*1'10	,		)' %21%-%+!	"21'10
T ' , '	T' \00)	! % ' ' ' ' ' ' '	1!&4 'O(()'	, '	5*2' AO ?E!	'))"!	5*1'10
' ,	: >'00T)	4(& D! ' 1!&4 'O(()'	! %'(	, , '	O' AO 9A!	/') 416% ! U'	& *+'
' ,	)' T' /NT /L)	%A("&% %>@ 4	! % 9	, , '	O' AO 99!	*0' % &*0' * ')' %4(! '	5 *%O&0)+'
O ' , '	O' /TF)			, , !		* ' '	5*1'10







,'& ' 3' ((' 00 %' 'a ⊬ &,', .%&4 3' (%)

7 =% AJ' "2') / *' 55'2%) /' "#' "6' '+' 2*5*%(*6' #2" &' /*%5*1' %0%'1+)' %((' 410"6('1*++' %16' 412'0/)*"4+1*++' "#' #1*1!' B/"' /"(6')/*')24)/''1'412'0/)*"''+1*++

AL' *<%4+*') /%)' B/'</' &% ' -*' /1"B1' "#' "6' '+' &%1'#*+)' '' '1') / * & ' #"2' 66' /%)/'+/*B*6'& '41)"') /*&

9 ' "2') /*' '15'+'-(*') /'10+' "#/'&'#2" &') / *' <2*%)''1' "#') /*' B"2(6'/2*' <(*%2('+**1!' -*'10;416*2+)" "6' - ') /*!') /'10+') /%)' %2*' &%6*!' ' 0'/'+*)*21%(K"B*2'%16' 46/*%6' '+"') /%)') / * '%2*' B')/"4)' *R<4+*

9A' *<%4+*') /%)!') /*1') / * ' .1*B' "6!') / * '0("2'#'*6!' 1")' %+' "6!1*') /*#B*2*' 4 &) /%1.#4(' -4)' -*<%& *' 5%'2'' '1') /*'2' '&%Y 0'1%)''1+!' %16') /*'2' #""('+/' /*%2)' B%+! 6%2.*1*6

99' 2"#*++'10') /*&+*(5*+')"' -*'B'+*!') /* ' -*<%& *'#""(+! 9?' 16' </%10*6') /*'0("2 '"#') /*'41<"2Y 24K)'-(*';' "6''1)"' %1' '&%0*' &%6*' ('.*') "' ⊄H‰("* <"224K)'-(*' &%1!' %16')"' -'26+!' %16' #"42' #"")*6'-*%+)+!' %16'<2**K'10') /'10+ 9C' /*2*#"2*' "6'%(+"'0%5*') /*&'4K')"

<"&#"2)' '1;') /*'2)2"4-(*+' - ' #%') /' %16' %##'%1<*' '1' K6$' '1' ('.* &%11*2) /* K"+)(*' +/*B+!) /%)' /*!' B/"' '+' $4+)' '2 2*('0''4+' %<Y <"26'10') "') /*' "+K*(!+/%((('5*' %('#*' "#02%<*' "1' *%2) /!'%16' 0("2 '#)' /*%5*1!-' #%')(" '1' /2'+)!' 6 , +

AJ' W*%' 3'6% 3'* ' *,'&'% ' (,' `<?#/*' K"+)(*' K2"<**6+! 54' 6 7' '%-+64)*' 1*<*++') ' "#') /'+#%') /' '1' /2'+)' -*'10' K2*%</*6')"' %16'*&-2%<*6' -'%((' &*1' B') /"4)' *R<*K)''"1!#2"&'% "1+'6*2%)''"1' "#) /%)' 6*K("2%-(*' <"16')''"1' "#5'<*' %16' B'<.*61*++! 416*2 B/'</'-") /' *1)'(*' %16' 3*B' B*2*' '15"(5*6! *' -*0'1+' ') /*' *1)'(*+' ' /(+

/*' B2% /'"# "6' B%+!-*#"2*' &"2*' *RK2*++(' 2*5*%(*6' %0%'1+)' #(' ' 412'0/)*"4+1*++' "#) /*' 3*B+! "6' '4') /*' &*%1') '&*' +'" #%2' G' B'1.'10Z %)') /*' 412'0/)*"4+1*++' "#) /*' *1)'(*+! %+) "' &%.*' 1'" *RK2*++' 6*141<'%)''1' "# '+' B2%) /'%0%'1+)') /*&' -4)' 1"B' *') #41&%16*) /' %((&*1' *5*2' B/*2*')"' 2*K*1)G "#) /*'2') &2'0/)' *-4+1*++! Z' -*<%4+*' *' /%) /' %KK"'1)*6' %6% ! '1') /*B/'</' *' UB'1' $460*') /*' "2(6' '1' 2'0/)*"4+1*++!G <)+' R5''' ! ?A' %+' $ 3& 4/+

L) &0 ' ((' $0)*,(&0 ' `<& / *' 410"6('1*++' "#&*1Z '01'#'*+) /*'2 '&K'*) ' '1' 2"--'10' "6' "#' '+' /"1"42! %16' 0'5'10' ')')"' 02%5*1' '&%0*+! "2)"') /*&' B/'</' Q' - ' 1%)42*' B*2*' 1"' 0"6+!G *;2' O JD+' /*'2 Z' 412'0/)*"4+1*++G '+') /*'2 '1$4+)'<*')"' "1* %1")/*2!Z 5*2' 9EO ? ' 16') /*' %2*' +%'6)"' Q /"(6' c' 2' 2*)%'1N) /*)24) /''1' 412'0/)*"4+1*++!Z - ' %<)'10' <"1)2%2 ') "') /* 1")''"1+' "#') ' /'</') /*' /%6! -2 &'0/') /%5*' (*%21*6! #2"&') /* (%B' "# 1%)42*! $&6 - ' 4KK2*++'10 -2 <"224K)'10') /* 6'<)%)*+' "#) /*'2 1%)42%(<"1Y +<'*1<*' %+' 3& 4/+

/*' K"+)(*+ 62'#)' +**&+' *+K*<'%((') "' %'&' %)') /* B'+*+)' "2 2*%)*+)' K2*)*16*2+!)"' .1"B(*60*' %&"10') /* *1)'(*+!) +** 5*2' +J' %16' /%K' ''' A' B/"' B*2*') /*2*#"2*' &"2*' 04'() ' %(+"' '1') /*'2 K2'6*' %16' <"1)*&K)' "#") /*2+' -+' W ((+

. $ ' 3 ' 63&.3' & /' 3 ' 80*60' * ' *,' & + 0& ' &0' 3 '!=á 2!' %&"10') /*&') /%)' '+' 4</' "#) /*' 1%)42*' %16' K2"Y K*2)'*+' "# "6' &%' -*' .1"B1' -') /*'(0')' "#1%)42*' '+' '1#'1')*' K"B*2!' B'+6"&!' %16' 0""61*++!' %2*' &%1'#*+)' '1') /*' &'16+' %16' <"1Y +<'*1<*+' "#%((&*1' Q'#"2 "6' /%) /'+/*B*6')' 41)"') /*&!G K%2)(' - ' '&K2'1)'10') /*+*' 1")''1+' "# '&+*(# 4K"1') /*' /*%2)+' "# %((/'*1!' %16' K%2)(' - ') /*' -"".' "#<2*%)''1!' '1' B/'</' '+' 0("2''4+' %))2'-4)*+ %2*' B2'))*1' '1' (%20*' %16' (*0'-(*' </%2%<)*2+' &&%8& +

7 ' W*%' 3 '&0'& &4(' 3&0) ' *' '3& ' ` ' "2') /"+*' -(*+++'6')) 2"Y -4)*+' "# "6!B/'</'%2*' 1")') "' -*' 6'+<*21*6' -') /*' +*1+*' "#&%1' 1%&*(' '+' *)*21%(K"B*2' '+' '1#'1')*' 0"'61*++!B'+6"&!' $4+)'<*!' &*2< ! %16') /*') 24) /''#' '+' 6*') ! %2*!' *5*2' +'1<*') /*' B"2(6' B%+! <2*%)*6!P+'" <(*%2(' +**1' %16' &%6*' .1"B1' -') /*' 5'+'-(*' %16' &'0/)' B"2.'"# '+' <2*%)''1' %16' 0"5*21&*1)' "#%(( ) /"(+*! B/'</' B'((' 1")' /*2*4K"1' %<.1"B(*60*') /*&!' %2*' (*#)' B') /"4)' %((*R<4+*' -+' ! ((+

/*' &*%1'10' "#) /*' K"+)(*' '+!') /%)') /*' "26*2!' <"1)2'5%1<*!' %16' 6*+'01!' 6'+K(% *6' '1') /*' <2*%)''1!' K2"5*' B') /' <*2)%'1) !) /%)') /*2*' .' &"2*' '1' 1%)42*') /%1' B/%)' B*' 2*%(('+**' %16') /%)' %&"10+)) /*' '15'+'-(*') /'10+' "#) /*' 41'5*2+*') /*2*' '+' % *'10!') /*' 4) /"2'%16' 2'0'1' "#%(( ) /'+' <")' '5%1<*' %16' 6*+'01' %16' - ' <"1+*V4*1<*' % *'10' "#+)4K*16"4+' K"B*2!' %16' "#B'+6"&!' %16' .1"B(*60*' '1Y <"&K%2%-(' *R%()*6' %-"5*' %1' B'+6"&!' "2 .1"B(*60*' B/'</' B*' +*' &' &%1' ' %16') /%)' *'+)%16+' '1') /*'+%&*' 2*(%)''1') "' 4+' %+') /*' &%.*2 6"*+)"') /*') /'10' &%6*' %.3(. & (/+

9A' . $ ' 3 ' 63 0' 3 /' 80 6' *,' `<á /*' B2')'10+' "# (%)"!' ,*1"K/"1!' (4)%2</!' '<*2"!'%16' ") /*2K/'("+"K/*2+!' B/'</'+)'((2*&%'1!')"0*) /*2 B')/') /*' V4")%)'"1+' &%6*' - ' 34+)'1' %2) 2 %16' (*&*1)' "# (*R%162'%#2"&') /"+*' B/'</'%2*' ("+)!' K2"5*') /%)) /*' (*%21*6' /*%) /*1+!) /"40/'01"2%1)' "#) /*' B% ' * ' (' &*0' B*2*' %<V4%'1)*6' B')/') /*' 41') ' %16' +K'2')4%(') ' "# "6!'%16' /%6!')"' %<*2)%'1' *R)*1)!$4+)' 1")''"1+' "# '+' K*2#*<)'*&+!' "#) /*' <2*%)''"1' %16' 0"5*21&*1)' "#) /*' B"2(6!' %16' "#) /*' 64)'*+' B/'</' &*1' "B*' !)"' "6!'%16')"' "1*' %1")/*2' %+' 5 .80&)3 +

' %6' %<<"41)' B*' /%5*' /*2*' "#) /*' +)%)*' "#2*('0''1' '/'#)'*' /*%Y) /*1' "2(6!'%16' % &%1'#*+)' K2"*' "#/" ' &4<'/'1%)42*' +)%16+' '1'1**6' #%+'+')%1<*' /%)' B*' (*%2(" #2"&') ' %4(#2 K(%'1(') /'+') /%) 1")B') /+)%16'10') /*' <%2*' B/'</' "6' /%6')%.*1') "' 6'+K(% ') /*' *5'6*1<*+' "# '+' "B1' -*'10' %16' "6/*%6' '1' *5*' ' B"2.'"#) /*' <2*%)''"1!+"') /%)' &*1' <"4(6'1")' -4)' /%5*' %1")''"1' "#) /*' *') ' *)!+"'('))(*' 6'6) /*' 'K2"#')' -') /%)' .1"B(*60*!) /%)' ') +*25*6' "1(')"' 2*16*2) /*&' '1*R<4+%-(*' '1') /*'2+4K*2+)')''"1' %16' '6"(%)2 ' - ' 3 %(*.8+

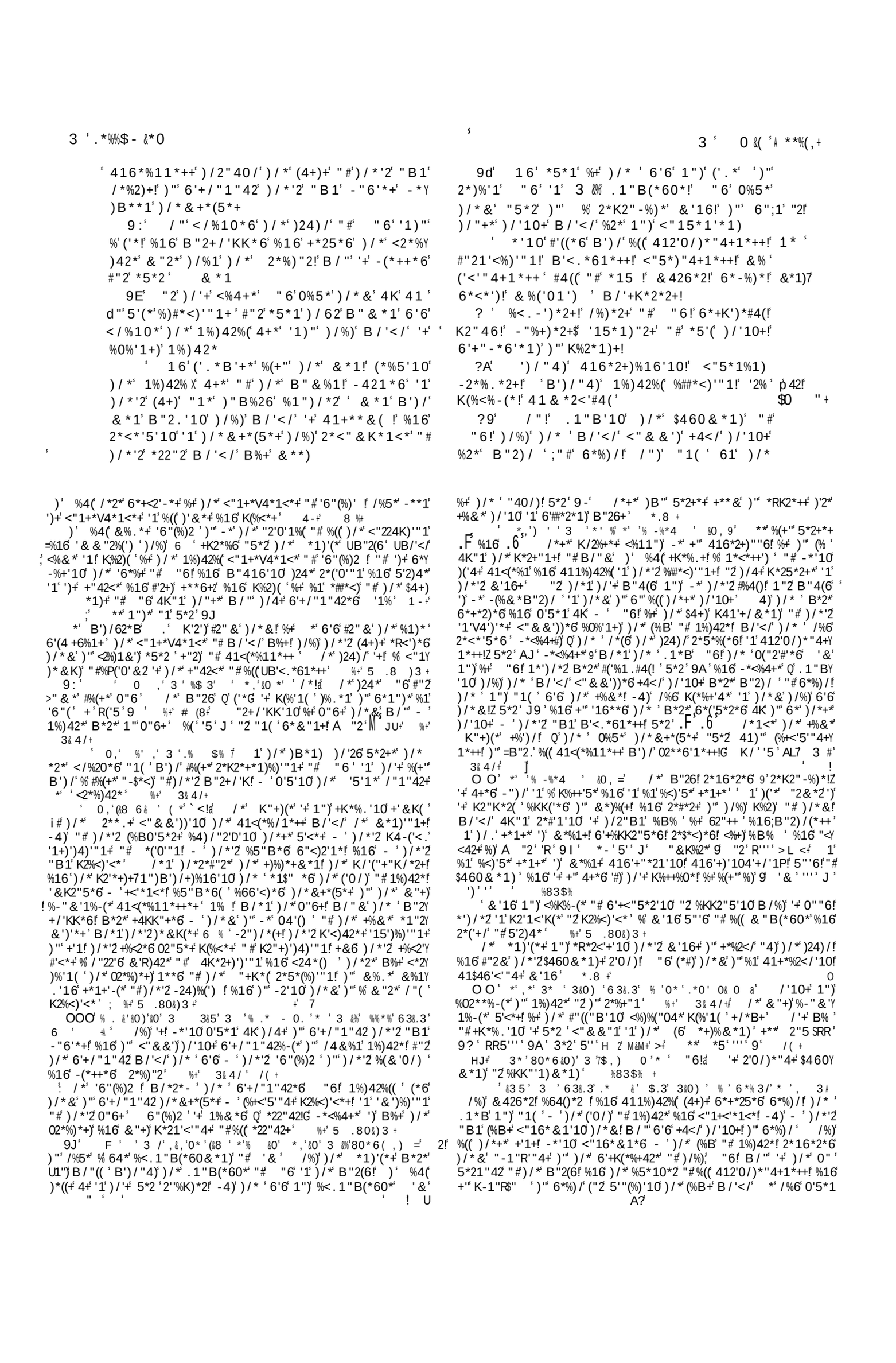
2"&') /'+' 5*2+*')"') /*' *16' "#) /*' </%K)*2 * /%5*' %(%20*' %16' -(%<.' <%)%("04*' "#) /*+'1+!' "#B/'</') /*' "(6' /*%) /*1+' ' *1)'(*+' B*2*' 04) ' $%8& ⊬

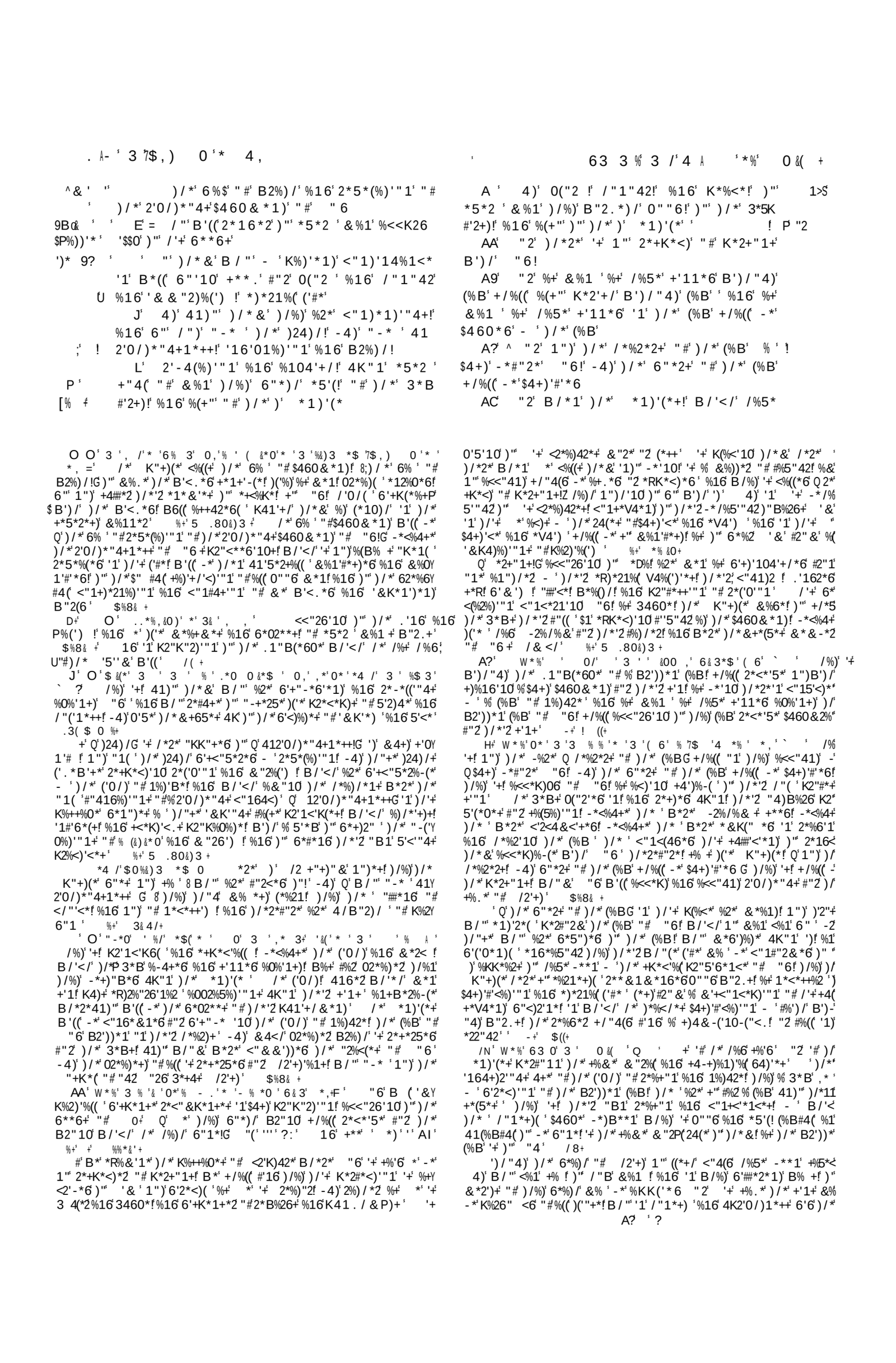
3 /')(*%& ,'3& '0*' ' *, F' JD@!A! @ !≔ 1(1% %4" 64*') "' '+' *') ' Q'1*') /*2 B*2*') /%1.#4(G)"' '&!B/"'0'5*) /')"' %((&*1'('#*!-2*%) /!%16'%(( ) /'10+' <)+' R5''' 9J' %16' R'5' AI' %+' 3& 4/GR' Q -4)' -*<%&*' 5%'1' '1') /*'2 '&%0'1%)''"1+!G ("+)') /*&+*(5*+' '1') /*' &"+)' '22%)''"1%(<"1<*K)''"1+' %16' #%(+*' 2*%+"1'10+' %-"4)' '&'' / (2R' Q'%16') /*'2 #""('+/' /*%2)' B%+! 6%2.*1*6!Z +"' %+' 1")') "' -*' +*1+'-(*' "#) /*'2 *02*0''"4+' #"((' %+' " G#' -4)) /*'2 1%)42%(2*%+"1' -*<%&*' &"2*' %16' &"2*' "-+<42*6!-' 2*-*(Y ('10' %0%'1+)') /*' ('0/) ' $%8& + /*' *1)'(*+' 4+*6') "' <%(( ) /*' +4K2*&*' &0)'Q' *+)' %16' 2*%)Y *+) X' /*' *RK2*++''"' B%+!$4+)!' %16' <"15* *6' 1"-(*' %16' /"1"42Y %-(*' +*1)'&*1)+! "# "6' 4)' 3 ' +%&*' *1)'(*+!' *%) &0)'"2' "5*2("" .'10' %(( ) /%)' B%+! '&K('*6' '1') /'+! *RK2*++''"1! B"2+/'KK*6' "6' '1') /*' +41!' &""1!' %16' +)%2+' "2+/'KK*6' '&' 416*2' '&%0*+! "# &*1! "# -*%+)+!' %16' "# &"1+)*2+' %66*6') "') /*' +4K2*&*' "6' '1#*2''42 6*')'*+!' %16' K%'6') /*&' *V4%(2*5*2*1<*' B') /' '&' %+Y <2'-*6') "') /*&' &(/4&%1' B*%.1*++*+' %16' 5'<*+' 0%5*' '5'1*' /"Y 1"42+' "' 6*%6' &*1' %16' B"2+/'KK*6') /*'2 6*')'*+' B') /' </'(6'+/' 416' %-+426!+" &*)'&*+' B') /' '&K42*!' '&K'"4+!' %16' <24*(2')*+' %16' <*2*&"1'*+' %+' *% &0+

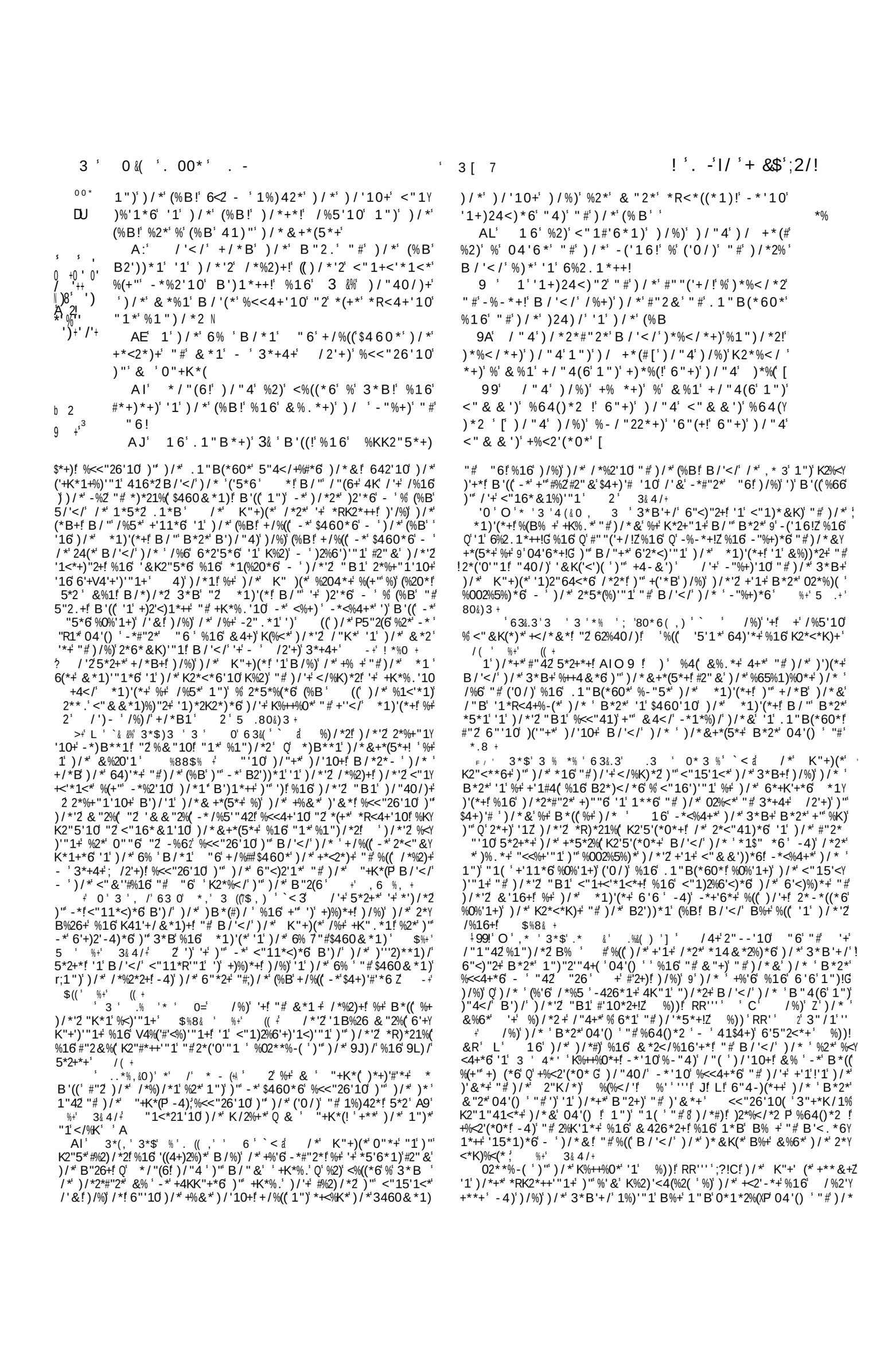
99!' 9?' %* &0)' 3 (' '*' 3'? F' 16' 4+42K'10') /%) 1%&*!' ^5*2' AC' A "2''' 9!9A!N 9') /*' -*<%&*'G '1') /*'2 %<)'"1+' Q'#"'(+G %+' 3& 4/' '9'%16!Z #"2' %1' 416*1'%-(*' K2"'# "#) /*'2 #"((!' Q'</%10*6') /*' 0("2''#) /*' 41<"224K)'-(*' "6!' `<G') /%)' '+!) /*' 6*-%+*6' %16' 6'+/"1"42*6') /*' %((0("2"'4+' "6!' - '#2%&'10' 5'(*' '&%0*+' "#&*1' %1) ' -*%+)+!' "#-'26+' %16' <2**K'10') /'10+! B/*2*-') "' 2*K2*+*1)' '&' %+' ((' $%8& +

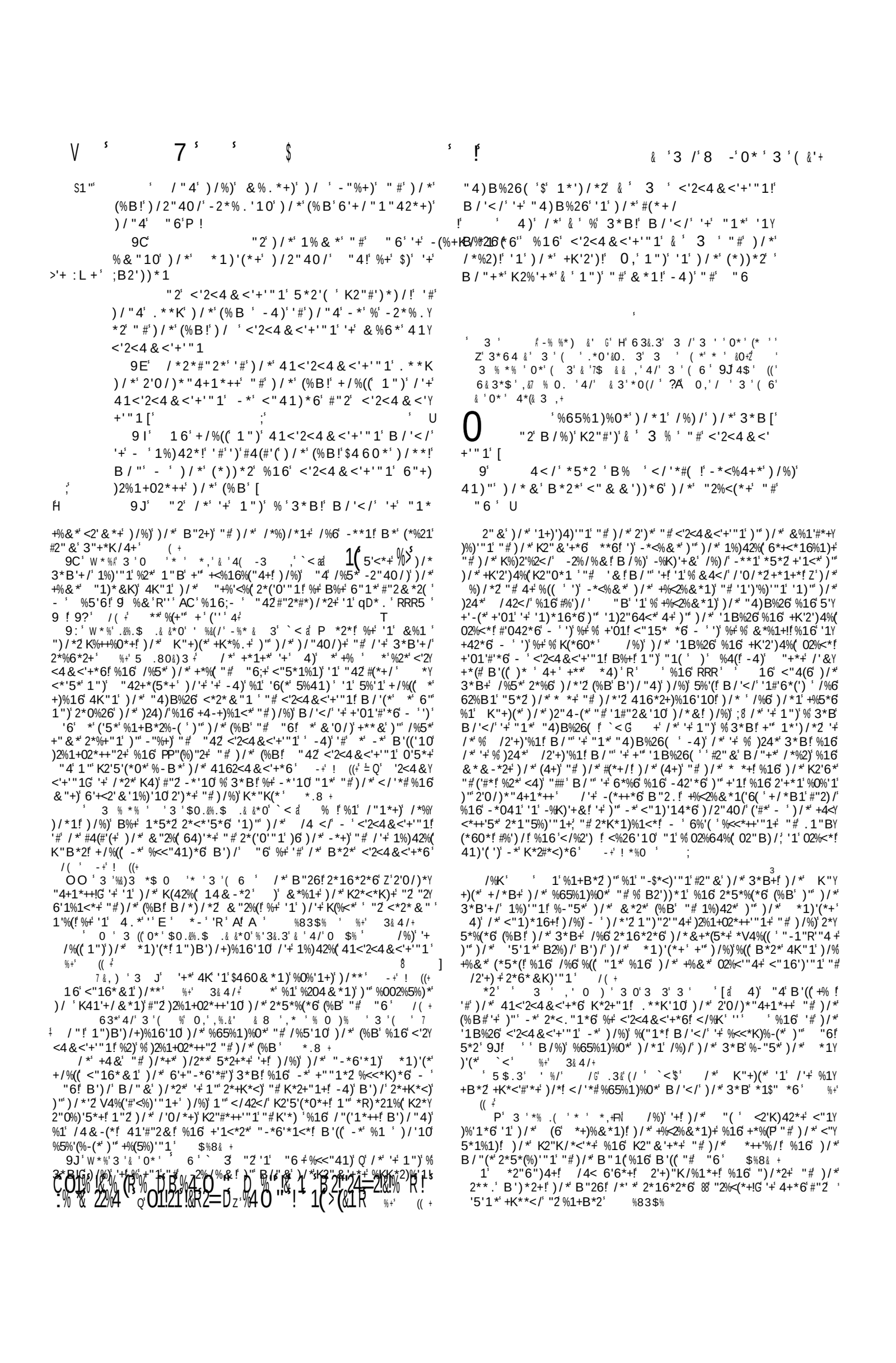
/"40/'#'(*' 1%)'"1+' "#) /*' /*%) /*1+' 0*1*2%((') /"40/') /*&Y +*(5*+' B'+*' '1') /*' 2*('0''1') /*' * *& -2%<*6!' *)) /*' K"+)(*' /*2*! /%5'10' %((%("10''1') /'+' %16') /*' #"((" B'10'<%K)*2+' 4+*6' Q' 2** .+G #"2' Q' *1)'(*+!' &%' -*') /"40/') "' .%5*' %1' * ')"') /*' 2** .+! %&"10' B/"&') /*' & *%"#+)46' %16' '1V4'2' %6'%++4&*6') "') /*&Y +*(5*+') /*' 1%&*' "Q B'+*' G ⊥ *.8 +

9C' 3 %'*% ' *,' (*') ' ' 3 '$-' *'$0.(00 ⊥' [/*2*#"2*' 7 "6!' "1') /*' ") /*2+'6*!' '1'%$4+)' K41'+/&*1)' "#) /*'2 02"+' '6"(%Y)2 !' %+' K(%04'10' "1*' +'1' B') /'%1") /*2!' 0%5*') /*&' "5*2) "') /*'2 -B/'41<(*%1'(4+)+',' -+' ! (+' /"+*' 02'*5"4+' '&&"2%(')'*+!' B/'</









> MJ

?" "2B/%)'#+"&*6'61")-*('*5*[+/%)/*'2 41-*('*# &%.*)/*#%')/" # "6 B')/Y "4)*##*<)[

C "6#"2-'6 *%'(*) "6'-*)24*!-4) 7 +' C *5*2 '&%1'%('%2'%+ ')'+B2))*1!7 /%))/"4'&'0/)*+)'-*$4+)'#'*6'1')/ '+% '10+P%16' &'0/)*+)'"5*2<"&*B/*1')/"4'%2)'$460*6

K 4)'#" "42 412'0/)*"4+1*++ <"1%&*16')/*' 2'0/)*"4+1*++ "# "6! B/%)' +/%((B*' +% '["6 412'0/)*"4+ B/"')%.*)/'5*1Y 0*%1<*['^ '+K*%.'%+ %'&%1N

E "6'#"2-'6 #"2)/*1' /"B'+/%(("6' $460*')/*'B"2(6[

I "2'#')/*')24)/ "# "6' /%)/ &"2*' %-"416*6')/2"40/'& '('*'41)"' /'+'0("2 ' B/ '*)'%&' '%(+"'$460*6'%+ %'+"11*2'[

J 16'1")'% 3 %'^%+'B*'-*' +(%16*2"4+(' 2*K"2)*6!'%16' %+'+"&*'%##'2&')/%)'B*'+% !N *)'4+'6"'*5'(!)/%)'0" "6'&% '<"&*[' B/"+*' 6%&1%)'"1'+'$4+)

L /%)')/*1'[%2*'B*'-*))*2' 3 0' 3 /']T "!'1'1"'B'+*'#"2'B*'/%5*'-*#"2*')K2"5*6' 8%) &&+

H W*%'3 '$WZ * ',&,'0*'4 (& ' ']' `<$ *2*#"(("B+%+*Y <"16"-$*<)'"1' "&*&'0/)'+% 24*!)/*3*B+/%6')/*"2%<(*+ "# "6!-4)'+"&*E#)/*&'1*5*2-*('*5*6')/"+* "2%<(*+!1"20%5*' %1 !<2*6')'")/*K2"&'+*' "#)/* *++'%/'<"1)%'1*6 '1')/*& ')/*2*#"2*')/*' /%6 1"' %65%1)%0*' -')/*& *' ')'+"!+%()/')/* K"+)(*' *)'+/%(()/*(4'-*('*#"#+"&*&%.*)/*#%')/!"2#'6*(') "# "6 '1'' '+K2"&'+*+!"#1"' *##*<)'")/2+!["6#"2-'6')/%)' +4<'%)/"40/)+/"4(6*5*2*1)*2'1)'" "42/*%2)+'-4)'1')/* <"1)2%2'(*)' "6-*%<.1"B(*60*6'9')24*G%/6#%')/#4(')' '+ B"26!)/"40/'%((&*1'+/"4(6K2"5*'9'(%2+G $%8& ' "6'+ +)'((K(*%+*6')' +)%16')' '+K2"&'+*&%6*')' -2%/%&'%16'B/%)Y *5*2)/*K*25*2+*-*/%5'"42 %16'-%+*2*)421+"#&%1.'16'&%'-* 416*2)/*6'+K*1+%)'"1+"# '5'1*&*2<'*+"2$460*1)+!

3*B+' %16; *1)'(*+!') /%)') / * ' %2*' %((' +"' 7 416*2' +'1' ' ;

A ' +' ')'+' B2'))*1!' /*2*' '+ 1"1*' 2'0/)[; *"1+!' 1"!' 1")' "1*'

AA' /*2*' '+ 1"1*')/%)' 416*2+)%16*)/!')/*2*' '+ 1"1*')/%)' +**.*)/' %#)*2' "6

A9' /* ' %2*' %((' 0"1*' "4)' "#')/*' B% !')/* ' %2*')"0*)/*2' -*<"&*' 41K2"#')%-(*')/*2*' '+ 1"1*')/%)' 6"*)/' 0""6!' 1"!' 1") ;"1*

A?' /*'2')/2"%)' & ' %1' "K*1' +*K4(</2*' B')/')/*'2')"104*+')/* ' /%5*' 4+*6' 6*<*')')/*' K"'+"1' "#'%+K+' & ' 416*2')/*'2' ('K+'

AC' /"+*' &"4)/' & ' #4((' "#'<42+'10' %16' -'))*' 1*++

' ;X& ' (*' K ' &0+

A:' /*'2'#**)'%2*' +B'#)')"' +/*6' -("" 6

AE' *+)24<)'"1' %16' &'+*2 ' % ' '1')/*'2' *"P' B% +

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' "B ' B*' . 1"B')/%)' B/%)')/'10+' +"Y *5*2')/*' (%B' +%')/!')' +%')/')"')/*&'B/"' %2*' 416*2')/*' (%B ')/%)' *5*2 ' &"4)/' &% ' -*'] +)"KK*6!' %16' %((')/*' B"2(6' &% ' -*<"&* ' 04'() ' -*#"2*' "6 ' #(K2!

9 ' /*2*#"2*' - ')/*' 6**6+' "#')/*' . B')/*2*' +/%((' 1"!'#(*+/' -*'$4+)'#'*6' '1' /'+'+'0/) ' %$*' #"2' - ')/*' (%B'& ')/*' . 1"B(*60*' "#'+'1

4K"1')/*3*B+' '1')/*+*<"16<!%K)*2' %16' 4K"1')/* *1)'(*+' '1')'(*' #'2+)' </%K)*2!' 5*2' ALO ?9' %+' (3+

! A ' '&'&' '%&(0' :c ? /*+*' <2'K)42*+' %2*' <"((*<)*6'#2"& 6'##*2*1)' K%2)+' "#)/*' (6' *+)%&*1)' -4)')/*2*' %2*' &%1 ' *6')'"1+' "#)/*' *K)4%0'1)' 2**.!' '1' B/'</')/* ' %((+)%16')"0*)/*2' '1')('*' #"42)**1)/' +%(&' %+' *,,%&,) +

)' '+ 1")' 1*<*+'+%2 !' '1' "26*2' *' &%.*' 0 "6')/* K"+)(*+ B"26+' "2' %204&*1)!)/%)')/'+ K%+'+%0*' +/"4(6' -*' K".*1' "#)/*' 3*B+' "#)/%)' %0*' '1' 0*1*2%(!*+'+K*<'%((' ' +**'10')/%)')/* ' %' *)/*2*' +%'6')"' /%5*' Q' 6*5"42*6' "6+K*"K(*!Z %16')"' /%5*' Q' +/%&*6')('*' <"41Y +*(" #)/*K""2Z)' '+ *1"40/!)/%)')/* ' +/"4(6' 0*1*2%((' %02*')"')/*3*B+' "#)/*' %0*!' '1' B/'</')/*' K"+)(*' B2")*!' %+' -")/')('*' <R'K)42*+' "#)/*' *B' *+)%&*1)' %16')/*' B2')'10+' "#3"+*K/4+' #4((' K2"5*')/* ' 6" ' 16')/%)')/*' (%B!' <"16*&1'10' %1 ' #"2)/*+*' <2'&*+!' 6")/' &"2*' *+K*<'%((' <"16*&1')/"+*' 416*2')/*' (%B!' B/"' %2*' %)'%1 ')'&*' 04'() ' "#<2'&*+!')/4+' 1")*6' %16' <"16*&1*6' - ')/*' (%B' %+' 3&4/+

' OTU63 ' 3&0) ' * ' %' 3 '(6' &3B ' /*#"2*0"'10' V4")%Y)'"1+!'%()/"40/')%.*1+' #2"&')/*' +%((&+!-*'10' <%((*6'+% '10+' "#)/*' (%B!' ')' '+ *5'6*1)')/%)' Q')/*' (%BG /*2*' 6*1")*+')/*' B/"(*' -"6 ' "#)/*' 3*B'+/' <2'K)42*+' %+' 5 .80&)8+

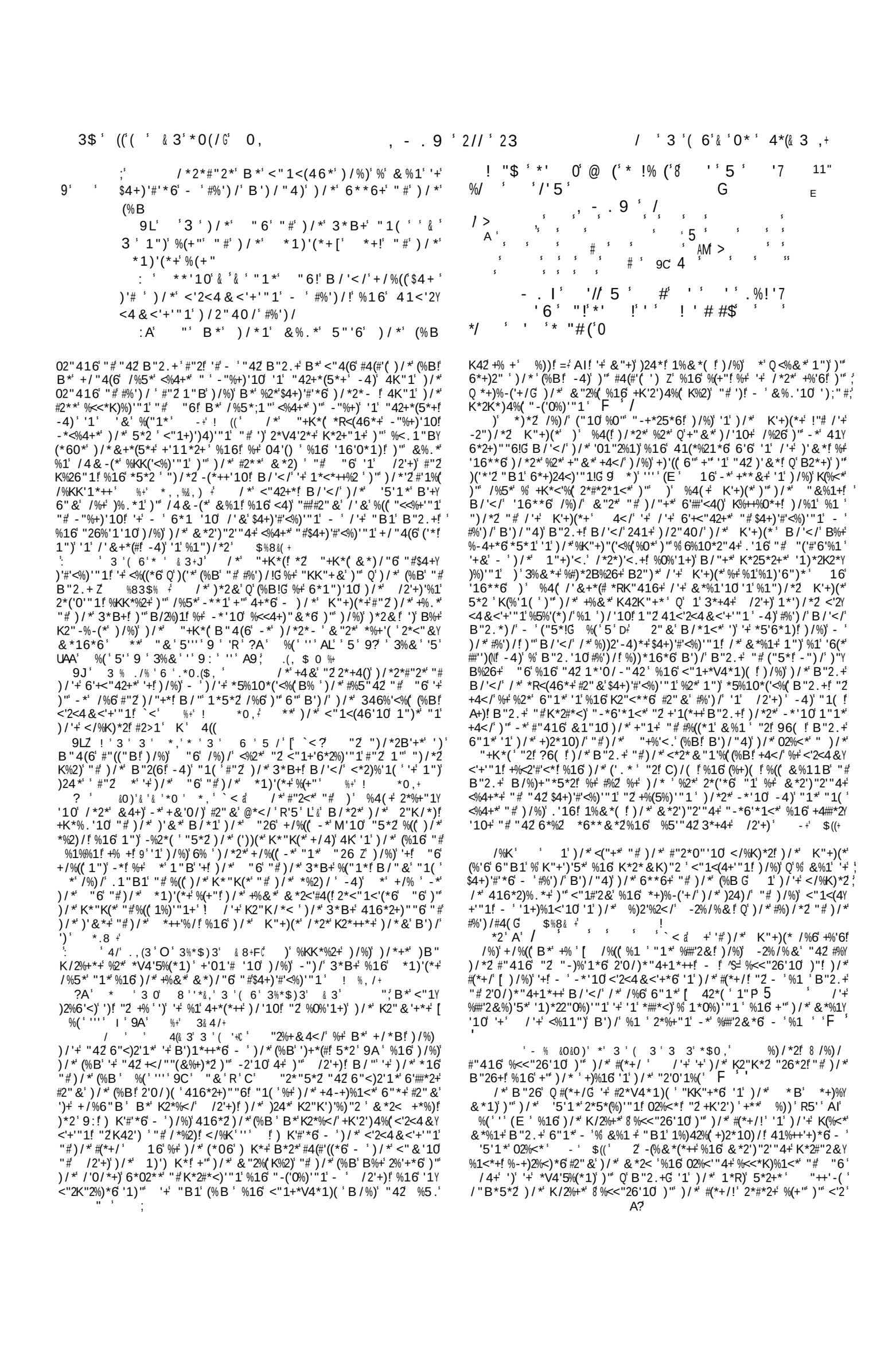
' /'4 .* ')$&(/'4 *% ' *,+(/%)' '+!' ;'+4-$*<)!' "2 8'('%-(*!)'" K41'+/&*1)' #2"&' "6' %83$% ' '%-(*')"')/*' 'Y 5'1*'$4+)'<*' 4-' &((* *0+

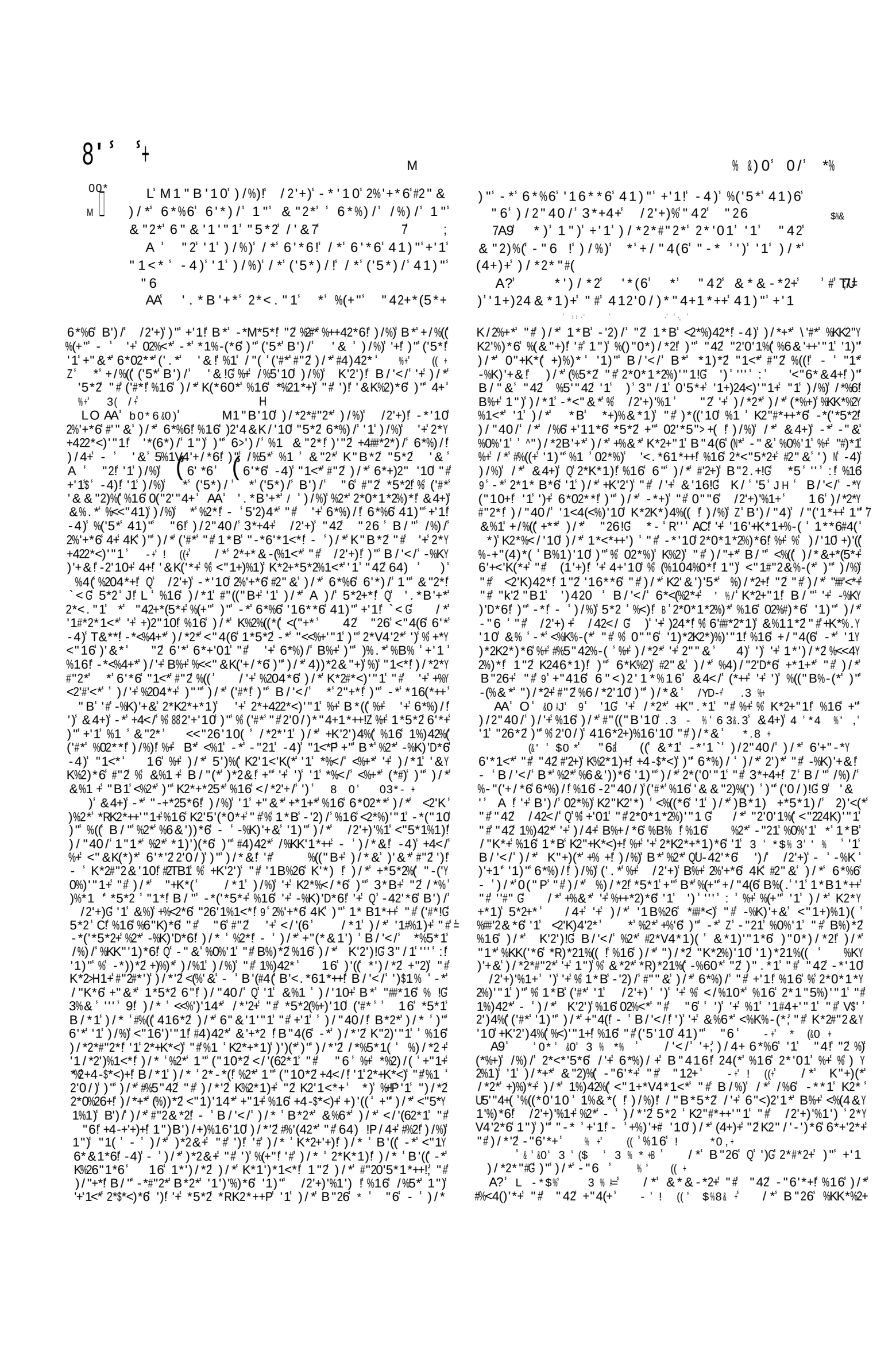
1')/*#'2+)' </%K)*2 "#)/'+' K'+)(*')' %4(0'5*+' %' 62*%6#4(6*+<2'K)'"1' "#)/*/*%)/*1' B"2(6!+'" -*1)')"' +'1!)/%)')/*' B*2*' %-%16"1*6')"')!0'5*1' 4K')"' 5'(*'%##*<)'"1+' %16' %2*K2"-%)*' &'16' ! ')*((' 4' *(+*B/*2*!)''%)' Q' %((' /%5*' +'11*6' %((')/*' B"2(6' '+ 04'() ' -*#"2*' "6')/*' <2'K)42*' /%)/' <"1<(46*6' %(416*2' +'1 G /*' B2')*2+' "#)/*' (6' *+)%&*1)'0'5*')/*+%&*%<<"41)' Q' /*2*' '+ 1"1*')/%)' 6"*)/' 0""6!' 1"!' 1")' "1*' /*2*' '+ 1")' % $4+)' &%1')/%)' 6"*)/' 0""6!' %16' +'11*)/' 1")G /*' %0%1+' 0'5*')/*' +%&*' %<<"41)')' %4(+' <"1)*&K"2%2' *1*<% <"&K(%'1+!)/%)' *5*2' "1*' /%+'11*6' &"2*' "2'(*++')/%)')/*2*' '+ 1")' % &%1')"' -*'#"416!' B/"' <"4(6' %<V4')' /'&+*(#')/%)')/*' &'+#"2)41*' "#' /4&%1' 1%)42*' '+ +4</!)/%)')/*2*' '+ % 1%)42%((' ("5*' "#+'11'10' %16' /*' 1!#"2&+ 4+!1")' "1(' B/%)' &*1' B*2*' %)')/%)')'&*!-4)')"%)' /*2*)"#"2*')/*' /%6' +'11*6!%16' B"4(6' <"1)'14*')"' 6"' +"' %+' ("10' %#!)/*' (' '5*6' ((' /'+)"2' %16' K/'("+"K/' %))*+')/'+)24)/' %((' (%B+!' K2*<*K)+! %16' 0"5*21&*1)' +4KK"+*')' 4)')/*+)2"10*+)!41/%KK(*+)' K2"#' "#%((' +!)/%)' *5*2' "1*' "#4+.1"B+')' - ' *RK*2'*1<*' %16' '#' B*' +% ')/%)' B*' /%5*' 1"' +'1!' B*' 6*<*'5*' "42+*(5*+!' %16')"'*')24)/' '+ 1")' '1' 4+!G A3"/1'' J' %+')/*' <%+*' ")/*2B'+*!' B*' +/")'(6' /%5*' 1"' "<<%+'"1' #"2!' 1"' 1)*2*+)' 1!' %' %5'"42')/*' *16' "#' '+ <"&'10' B%+' Q')"' +%5*' +'11*2+)/ * '%2*')/*' "-$*<)' "#' '+ &*2< ! %16' %((' &*1'%2*')/*' "-$*<)' "#' '+ &*2< ! #"2 ;;')/*02%<*' "#' "6')/%)' -2'10*)(*' +%(5%)"'1' /%)/' %KK*%2*6')" %((' &*1 G %16')/*' "+Y K*(!)/*0"'6')'6'10+' "#K*%<*' %16' +%(5%)"'1!' '+ <"&&%16*6')" -* K2*%<*/*6' '1' %((')/*' B"2(6' Q')" *5*2 ' <2*%)42*G ' %+' (*. ' &,(/+' :

9 ' 3 %*% ' 4/' 3 ' , ' * ' 3 ' (6' ` d 3 ' K"+)(*' /*2*' 62%B+' /'+' <"1<(4+'"1' #2"1" B/%)' /*-*#"2*' K2*&'+*6' <"1<*21 ' '10' -")/' 3*B' %16' *1)'(*' 1%&*(!)/%)' Z' - ')('*' B"2.+!G B/*' P)/*2 &"2%(" 2' <*2*&"1'%(!' Z' "#)/*' (%B!G' <"1+'6*2*6' '1' <"1)2%' 6'+)'1<)'"1')"')/*' "+K*(!%16' +"' *R<(4+'5*' "#)/*' 02%<*' "#' "6' '1' /2'+)!' Z' +/%((' 1"' K+/!Z 3*B' 1"' &"2*')/%1' *1)'(*!' Z' -*'$4+)'#'*6' ;' '1')/*'+'0/)' "#' "6 G -+' $((' %+' ((+ OO ' 4' &(&.N "6+$4+)'# '10' 4' 6")/'+"(*(!"2' </'*#(!' '&K"2)' '+ %<V4'))'10' 4' #2"&' 04'()!' <"16*&1%)"'1!' %16' K41'+/Y &*1)!-' #' **' K%26"1' %16' 2*&'++'"1' "#"42' +'1+!%<<"41)'10' 4+ %16' 6*%('10' B')/' 4+' %+' $4+)' K*2+"1+!4K2'0/)' %16' '11"<*1)' '1' '+ +'0/)' %16' *+)**&' %+' .' %%*6+ + /*' "2'0'1%(' 5*2-!/*2*' 2*16*2*6' Q' +/%((-*' $4+)'#'*6!G' +' &"+) 4+4%((' %KK('*6')"' *5%10*('<%($4+)'#'<%)"'1' %16' +'0"'#'*+)"' $4+)'# !)"' *+)**&!K2"1"41<*!' "2 6*<(%2*' $4+)' "2 2'0/)*"4+')/%)' '+!)"' %<Y V4')' "2 %-+"(5*' #2"&' K%+)' "##*1<*+!' %16' %<<*K)!' %+' $4+)!' "!)/*2*Y B%26' "#2'0/)*"4+1*++' 1')/'+ 5'*B')' '+ K(%'1(' %#-2*1+'<.')*2&!' "2 %)*2&' -*("10'10')" <"42)+' "#$46'<%)'42*!%1+B*2'10')"')/* *Y -2*B' B"26!#"2 B/'</)/* *5*1) ' /%5*' 4+*6')' '1' *1)' RR5' A A M'10+' 5''' ' ?9 9' ('2"/' 5''' 9?' +' 5' 9?' %16' ")/*2 K(%<*+' "&K%2*' 2"5' R5''' (4+')' '+ '1')/* *B' *+)%&*1)' %KK('*6' *')/*2)"' K2*+*1)' $4+)'#'<%)'"1' '1')/'+ ('#*' <)+' R)''' I' ' "&' 5' A! L' 5''' ' J?' A "2 5' ' AA' ')' ''' I ' X.+' "2)"' #'1%($4+)'#'Y <%)'"1' %)/*(%+)' 6% ' %))' R'' ?I' <"&K%2*' "&!' '' APf %8 ' 3$% +

/%)')/*B"26' '+ /*2*')%.*1' ((' % #"2*/+'<.' "2 $46'<'%2 ' +*1+*' '+ &%1'#*+)!-")/'#2"&')/*K/2%+*' B')/B/'</' ')' '+ <"11*<)*6!%16' B/'</' +'01'#'*+!8'1')/*+'0/)!$460&*1)!"2 *+)'&%)"'1!' "# "6 ' %16' %(+"#2"&' +' <R(''' 9!*5'6*1)(' %((46*6')"' -')/*' K"+)(*!!B/*2*' %5'6' &"+)' /4&-('K2% +')/%)' /*' &% ' 1")' #%((416*2)/*+)2'<)$460&*1)' "#' "6' /'+ K%+'+%0*' '+ K%')'<4(%2(')"' /*"-Y +*25'6!-*<%4+*' ')' <(*%2(' +/*B/B/%)' /*' K"+)(*' &*%1)' -' $4+)'Y #'<%)'"1' '1')/*B/"(*" "#/'+ %20)41*1)' <"1<*21'10' #%')/%16' B"2.+' -+' $((' ' = *%'4/' 3 '(6F= %&*(!-' ')/*(%B')/4+' <"1+'6*2*6' '1 "KK"+')'"1')"')/*"+K*(!c %+' ((R9' '+)/*.1"B(*60*' "#+'1 ' ')+' </'*# *##'<%<' ' '+)"' 6'+<"5*2+'1!'%16' <"16*&1' 4+' #"2' +'11'10' ' Q')/*(%BG /*2*' B*' %2*')"' 416*2+)%16' -")/')/*' 1%)42%(' %16')/B2'))*1' (%B ' $%8&& +' /*')*2&' +'01'#'*+' (%B' '1' 0*1*2%(' %16' <"&K2*/*16+)(*' (%B' B2'))*1' '1' &%1+/*%2)!' &*(' (' A:!%+ B*((%+')/*(%B' "# "+*+' #"2 -' -")/' Q' '+)/*.1"B(*60*' "#+'1 Z %+' 5 .80&)3+ 16!)/%)')' <"&K2*/*16+ 1%)42%(%+ B*((%+ 2*Y 5*%(*6 (%B!%KK*%2+#2"&')/*' <"1<(4+'"1' B/'</)/*' K"+)(*' 62%B7!%16' #2"&')/*' B/"(*)*1"42' "#/'+ +4-+*V4*1)' %204&*1)' B/'</' B"4(6' /%5*' 5*2 ' ('))(*' B*'0/)!' #)/*2*' B*2*' 2"'"&')"' "-$*<)!)/%)' %()/'40/' B*' <%11")' -*' $4+)'#'*6' -' "42' -*6'*1<*')"')/*' (%B' "#' (%B ' %+' *,,%&,) +

(+"!-' Q')/*.B G %16' Q')/*6**6+' "#)/*(%BG %2*')"' -*' 41Y 6*2+)"'"6'-")/'<*2*&"1'%(%16' &"2%((%B!*+K*<'%(('))/*(%))*2'#"2 Q' -')/*G &"2%(" Q' (%B' '+)/*.1"B(*60*' 2#'+1 G ')' '+)/*' &"2%((%B')/%)' #"2-'6+')/*#)!%64()*2 !%16')/*('.*' *+'6*+P!' '+ *5'Y 6*1)!)/%)')/*' "KK"+)'"1' 241+' %((' %"10!1")' -*)B**1' <*2*&"1'%(%16' &"2%(" B"2.+!-4)' -*)B**1' B"2.+' '1' 0*1*2%(!%16' #%')/!5*2' 9 !99' -*)B**1')/*(%B' "#B"2.+!%16')/*(%B' "#%')/!5*2' 9 1' <%K' '5' J' D2' &M+HJ2' R' !D+' $%8&' %+' 3&4/+





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B / *2*"#ʻ *ʻ %2*ʻ / "Bʻ %+/%&#*6ʻ [ʻ #"2ʻ) / *ʻ *16ʻ "#ʻ) / ";+*ʻ) / '10+'+ʻ 6*%) / ʻ ;ʻ 7
99ʻ 4)ʻ 1"Bʻ -*'10ʻ &%6*ʻ #2**ʻ #2"&ʻ +'1ʻ %16ʻ -*<"&*ʻ +*25%1)+ʻ)"ʻ "6!ʻ *ʻ /%5*ʻ "42ʻ #24')ʻ 41)"ʻ / "('1*++!ʻ %16ʻ) / *ʻ *16ʻ *5*2(%+)'10ʻ ('#*
9?ʻ "2ʻ) / *ʻ B%0*+ʻ "#ʻ+'1ʻ & ʻ 6*%) / ʻ Ú - 4)ʻ) / *ʻ 0'#)ʻ "#ʻ "6ʻ & ʻ *)*21%(ʻ ('#*ʻ) / 2"40 / ʻ 3*Y +4+ʻ / 2'+)ʻ "42ʻ "26

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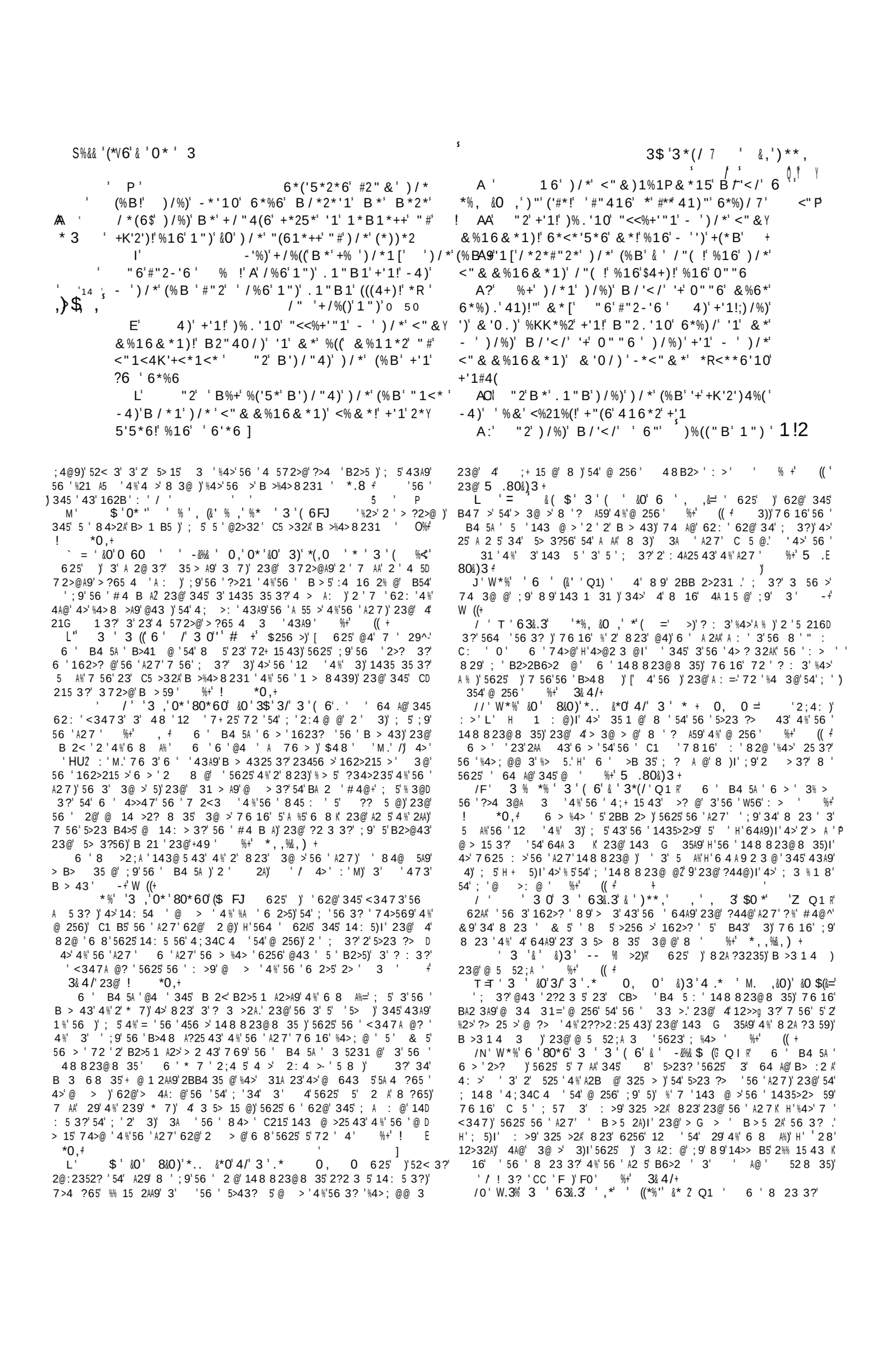
) ʻ *ʻ 1")!ʻ -2*) / 2*1!ʻ ^#"2ʻ ʻ +K*%.
!)"ʻ) / *&ʻ) / %)ʻ . 1"Bʻ) / *ʻ (%B!Nʻ / "Bʻ) / %)ʻ) / *ʻ(%Bʻ -%) / ʻ 6" & '1'"1ʻ "5*2ʻ %ʻ &%1ʻ %+ʻ ("10ʻ %+ʻ / *ʻ('5*) / ʻ [
9ʻ "2ʻ) / *ʻ B"&%1ʻ B / '</ʻ /%) / ʻ %1ʻ / 4+

-%16ʻ '+ʻ -"416 ʻ) / *ʻ(%Bʻ)"ʻ 3 % / 4+-%16ʻ +"ʻ("10ʻ %+ʻ / *ʻ('5*) / ʻ -4)ʻ '#ʻ) / *ʻ / 4+-%16ʻ -*ʻ *#) 6*%6!ʻ +/#*ʻ '+ʻ (""+*6ʻ #2"&ʻ) / *ʻ (%Bʻ "#ʻ 3 % / 4+-%16
;Jʻ "ʻ) / *1ʻ '#!ʻ B / '(*ʻ 3 % / 4+-%16ʻ ('5*) / !ʻ +/*ʻ -*ʻ &%22'*6ʻ)"ʻ %1") / *2ʻ &%1!ʻ +/*ʻ +/%((ʻ -*ʻ <%((*6!ʻ%1ʻ %64()*2*++ʻ -4)ʻ'#ʻ/*2ʻ / 4+-%16ʻ -*ʻ 6*%6!;ʻ+/*ʻ'+ʻ#2**ʻ#2"&ʻ) / %)ʻ(%Bʻ +"ʻ) / %)ʻ +/*ʻ'+ʻ 1"ʻ %64()*2*++!ʻ) / "40 / ʻ+/*ʻ-*ʻ&%22'*6ʻ)"ʻ%1") / *2ʻ&%1
Cʻ / *2*#"2*!ʻ& ʻ-2*) / 2*1!ʻ *ʻ%(+"ʻ%2*ʻ-*Y <"&*ʻ6*%6ʻ)"ʻ) / *ʻ(%Bʻ- ʻ) / *ʻ-"6 ʻ"#ʻ / 2'+) ʻ) / %)ʻ *ʻ+/"4(6ʻ-*ʻ&%22'*6ʻ)"ʻ%1") / *2!ʻ ' 0ʻ)"ʻ / '&ʻ B / "ʻ '+ʻ 2%'+*6ʻ #2"&ʻ) / *ʻ 6*%6!ʻ) / %)ʻ B*ʻ+/"4(6ʻ-2'10ʻ#"2) / ʻ#24')ʻ41)"ʻ "6
:ʻ "2ʻ B / *1ʻ B*ʻ B*2*ʻ '1ʻ) / *ʻ #(*+/!ʻ) / *)ʻ&")'"1+ʻ "#ʻ+'1+!ʻ B / '</ʻ B*2*ʻ -ʻ) / *ʻ (% 5!ʻ #ʻ*%ʻ 6'6ʻ B"2.ʻ '1ʻ "42ʻ &*&-*2+ʻ)"ʻ -2'10ʻ #"2) / ʻ #24')ʻ41)"ʻ6*%) /

3ʻ 71< @3)ʻ 56 9ʻ128 ʻ54ʻ > %A 15ʻ 144AA9ʻ7625ʻ > 2Aʻ 2@:2352? ʻ 56 9ʻ62@?2 3 @ʻ ;9ʻ5ʻ43ʻ56 ʻ B 645ʻ 6 ʻA23? 2? ʻ4%ʻ564)ʻ764ʻ 7 AAʻ ; ʻB> :2 A @ʻ43ʻ54ʻ ;2A231 ʻ5625ʻ ?> 25ʻ2114 35)ʻ ʻ2A84 5ʻ 3 D : > 2AA9ʻ56 ʻ 28)ʻ76 16ʻ A6 ʻ 3ʻ*4;ʻ 2 1> ; ʻ 54ʻ 56 ʻ B 3 5 35)ʻ H ʻ ʻ 62: ʻ 33 @)ʻ 23@ʻ B >: >5 @ʻ 5625ʻ 76 16ʻ 72 ʻ > ?65)ʻ 23@ʻ 5ʻ B>4%5 @ʻ 8 ʻ345)Iʻ*4;ʻCCC ʻFWʻ 4-ʻ 8 %+
FFʻ Tʻ/ ʻ3 ʻ ʻ/*$%% %$&ʻ $0*ʻ3*(&0 ʻQ1 Rʻ (ʻ62: ʻ2; 3D @231ʻ4%1435 358 35ʻ56 > ;92 21148B23 @ʻ7 56ʻB> 35ʻ2315D % 125 43ʻ 23@ 64A 3 ʻ4%ʻA %)ʻ23@ʻ56 ʻB>48 ʻ4%ʻ : >A2 5 3?ʻ62BD B 3 ʻ -+ʻ ! ((ʻ %+ʻ ! &,+
HHHʻ W*%ʻ 3ʻ) ʻ ʻ &0ʻ& ʻ, 32 Q1 Rʻ 625ʻ)ʻ56 ʻ72? ʻ 76 16ʻ2> ʻB2@ʻ;9ʻ 3)ʻ143 @ > @ʻ2 ʻU B > 43)ʻ23@ʻ 4ʻ2> ʻ4BB4 @ʻ 54ʻ7625ʻ ʻH ʻ? : 3I ʻ;9ʻ#4@ ʻ %83$% +
H 6 ʻ72? ʻ4%ʻ 3ʻ ʻ@ 256KIʻ 5ʻ ʻ7625ʻ #4@ʻ6256ʻ CB> A9ʻ 56> 25 3 @ʻ 23@ʻ? : 3ʻ 8 3ʻ %% 1 35ʻ72>3 3?ʻ 4%K 23@ʻ56 > %4> ʻ 7625ʻ56 9)ʻ764ʻ<347ʻ; %4> 623@ʻ B43ʻ7625ʻ5 >8 ʻ56 9ʻ 3 A2: ʻ 56 8 A:)ʻ23@ʻ764ʻ62: ʻB 5ʻ354ʻ56 >ʻ623@ʻ 4ʻ8239ʻ2 5231 ʻ 23@ʻ4BB4>5 3 5 ʻ4%ʻ ; 3?ʻ%> ʻ23@ʻ62BB9)ʻ@4ʻ;9ʻ56 >ʻ4; 5 3219ʻ @ >: ʻ & 5ʻ56 ʻH ʻ 5 >32Aʻ A % I ʻ272>@ @ʻ54ʻ ?44@ʻ 8 3)ʻ ʻ7625ʻ 56 ʻ: >9ʻ ; 5ʻ4%ʻ56 8ʻ3 56 >ʻ@4)ʻ34>ʻ : >ʻ123ʻ@ >: ʻ ʻ829ʻ 3@ @ʻ@ >: ʻ4 >ʻB 3 68 35)ʻ; 12 ʻ 3ʻ ʻ4 >ʻ 473ʻ 85 > A9ʻ 4 >ʻ473ʻ215ʻ & 5ʻ7 ʻ123345ʻ> 2 432;A9ʻ; ʻ 2@ʻ54ʻ (&"A(2ʻ > D 148B 3 ʻ%4>ʻ215)ʻ345ʻ 35 > A9)ʻ345ʻ4> ? 32AA9)ʻ4 >ʻ473ʻ^ 23@ʻ5625ʻ 25ʻ ʻ623@ʻ544)ʻ764 ʻ%> ʻ?>21 ʻ23@ʻ?44@ʻ B > 5ʻ 5ʻ)ʻ5625ʻ 74>< ʻ 3ʻ ʻ;456ʻ56 ʻ7 AAʻ 23@ʻ56 ʻ@ @ʻ 4 5ʻ + 5A9ʻ56 > %4> ʻ @456ʻ 56 ʻ B4 5A ʻ B 5ʻ 56 ʻ@ %% > 31 ʻ 6 > ʻ ; 57 3ʻ Hʻ 72? Iʻ 23@ʻ H ? %5 Iʻ 6 ʻ%4>8 >ʻ ʻ56 ʻ %% 15ʻ4%ʻ+ 5 1 .ʻ 56 ʻA255 >ʻ 4%ʻ ; 4 359K 2ʻ ; 4 359)ʻ345ʻ 31A 3 @ʻ ;9ʻ239ʻ143 @ >25 43ʻ 84: 3?ʻ 5ʻ43ʻ 4 >ʻB2>5.ʻ ; 5ʻ> @4 3@ 3?ʻ54ʻ23@ʻ@ 1 3@ 3?ʻ B43ʻ ʻ%4>ʻ56)ʻ 2<ʻ 4%ʻ2ʻ > 43)ʻ764ʻ6256)ʻ 5ʻ8 5ʻ ;ʻ143% @)ʻ8 >5 @ʻ 5ʻ54ʻ56 ʻ 55 >D 84 5Kʻ : 3ʻ * ʻ 6> %)ʻ 764 ʻ >:235ʻ 7 ʻ 2>)ʻ 764ʻ 143@ D 1 3@ @ʻ54ʻB >162 ʻ 5ʻ25ʻ56 ʻB> 1 ʻ4%ʻ ʻ473ʻ;A4@ʻ 3@ʻ56 > D %4> ʻ 345ʻ 354ʻ ʻ ; ʻ56 ʻB>2)ʻ 4>ʻ239ʻB2>5ʻ 4%ʻ 5.ʻ ; 5ʻ 354ʻ 8ʻ ; ʻ 6434 >)ʻ 23@ʻ ?A129ʻ 23@ʻ 5623<)ʻ H %4>ʻ 56 ʻ ʻ 3 B 2<2;A ʻ ?+%5 Iʻ 0ʻ 03*-ʻ+ O

62Bʻ, ʻ 3ʻ B4 5A)ʻ62: 3?ʻ 3ʻ56 ʻ %4>8 >ʻ 162B5 >ʻ @ D 1A2> @ʻ647ʻ; 6- : > ʻ2> ʻ%> @ʻ%>48ʻ56 ʻB47 >ʻ23@ʻ@48 3 43ʻ4%ʻ 3) Bʻ>41 @ʻ 54ʻ 6 7ʻ5625ʻ 56 9ʻ 2> ʻ 2A 4ʻ %> ʻ %>48ʻ 56 ʻ 94< ʻ 4%ʻ 56 ʻ 4 2 1<ʻ A27)ʻ ;9ʻ 23ʻ 3 5231 ʻ52< 3ʻ %>4 8 56 ʻ A27ʻ 4%ʻ 8 2>> 2? ʻ 6 3ʻ54ʻ143: 31 ʻ56 ʻ* 7 6ʻ 6> 5 23)ʻ ;456ʻ4%ʻ56 ʻ 2; 4A 5ʻ3 D 1 59ʻ23@ʻ?> 25ʻ62BB 3 ʻ4%ʻ>A9 3?ʻ B43ʻ56 ʻ#4 B Aʻ> A ? 43)ʻ %4>ʻ56 ʻB2>@43ʻ4%ʻ 3ʻ23@ʻ 5 >32Aʻ 2A:2543)ʻ23@ʻ56 ʻ+B 55 >ʻ54ʻ> D 1488 3@ʻ6 ʻ2>? 8 35ʻ54ʻ56 8)ʻ6 ʻ BB4 ʻ6 8 A%2ʻ* 7ʻ 3@ >ʻ 56 ʻ 28 ʻ143@ 5 43ʻ4%ʻ62; 5 2Aʻ 3ʻ23@ʻ? A5)ʻ76 16ʻ6 ʻ62@ʻ 6 73ʻ 56 8ʻ 2Aʻ 54ʻ ; ʻ 3)ʻ162B5 > ʻ ʻ23@ʻ ʻ 3@ʻ ; 9ʻ56 ʻB > 4325 3?ʻ 56 ʻ62; 5 2Aʻ5>23 ?> 4>ʻ4%ʻ56 ʻ84>2Aʻ A27ʻ4%ʻ#4@)ʻ 6 7ʻ56 ʻ 4ʻ 2 12Aʻ A27ʻ 55 >A9ʻ 8 2 ; <)ʻ 56 >ʻ54ʻ 1 > ʻ56 ʻ 62; 5)ʻ 4>ʻ 2543ʻ %4>

56 ʻ? A5)ʻ4%ʻ6 ʻ 3ʻ 6 ʻ8 >5ʻ4%ʻ 6> 5ʻ56 > %4> ʻ23@ʻ ʻ> D A ? 43)ʻ2> ʻ3 1 2>9ʻ%4>ʻB2>@43ʻ23@ʻ 2A:2543ʻ $%8& ʻ /(+ , >ʻ / ʻ T ʻ ʻ - 8ʻ *ʻ 3 ʻ 3 ʻ80*6ʻ 3ʻ(R ʻ ! ʻ2@@> ʻ 6 8 A%54ʻ6 ʻ;> 56> 3ʻ4%ʻ56 ʻ 541<4%ʻ ;>2628)ʻ7648ʻ3ʻ BB4)ʻ ;9ʻ56 >ʻ%> G 35ʻ6 2> 3?ʻ23@ʻ> 2@ 3?ʻ4%ʻ56 ʻA27ʻ4%ʻ 4)ʻ54ʻ; ʻ 7 AAʻ 3 5> 15 @ʻ 3ʻ56 ʻ325 > ʻ4%ʻ564 ʻA27)ʻ76 16ʻ? : ʻ43 ʻB > 4 ʻ 35 > 5ʻ 3)ʻ4>ʻB47 >ʻ4: >ʻ23456 >ʻ %+ʻ ! *0,+
ʻ(*0)ʻ ʻ3ʻ(&' 3ʻ $256 >)ʻ H ʻ2 ʻ 5)\ʻ5625ʻ)ʻ56 ʻA27) Hʻ A : 56 Iʻ 6 ʻ8 23 3?ʻ ʻ ! 347ʻ9 ʻ345)ʻ5625ʻ56 ʻ 4 2 12Aʻ A27ʻ 6256ʻ @48 3 43ʻ4: >ʻ239ʻ823)ʻ5625ʻ ʻ ;+ 15ʻ54ʻ 5)ʻ 4ʻA43?ʻ2 ʻ56 ʻ 2 @ʻA27ʻ ʻ3ʻ%4>1 ʻ]ʻ -+ʻ ! ((+
F ʻ W*%ʻ3ʻ6* 0 QQ+ʻ 2< ʻ56 ʻ 3 5231 ʻ 4%ʻ2ʻ 6 ;23@)ʻ23@ʻ 7 % Kʻ A 5ʻ56 ʻ6 ;23@ʻ ; ʻ56 ʻA27.ʻ A 5ʻ ʻ143: >5 ʻ *ʻ 6> 5 23 59ʻ ; ʻ56 ʻ7 % .ʻ 4ʻ56 3)ʻ56 ʻ7 4 8 23)ʻ 7 6 16ʻ 6256ʻ 2ʻ 3$ 4 0, ʻ& ʻ ;4 3@ʻ ; 9ʻ56 ʻA27ʻ54ʻA : ʻ 7 56ʻ 6 >ʻ 6 ;23@ʻ 23@ʻ54ʻ ; ʻ ;+ 15ʻ 354ʻ 6 8)ʻ 4ʻ A43?ʻ 2 ʻ 6 ʻA : 56.ʻ ; 5ʻ %ʻ 6 >ʻ 6 ;23@ʻ ; ʻ 431 ʻ @ 2@)ʻ 6 ʻ A44 @ʻ%>48ʻ239ʻ% >56 >ʻ;43@ʻ54ʻ6 >ʻ6 ;23@ʻ4>ʻ4; >:231 ʻ4%ʻ6 8 ʻ -+ʻ ! ((
ʻ4> 2< 3?ʻ56 ʻA27 i4%ʻ #4@)ʻ23@ʻ?4 3?ʻ4: >ʻ54ʻ23456 >ʻ > A ? 43)ʻ ʻ %> G 35A9ʻ 3ʻ 1> B5 > ʻ 59A @ʻ H %4>3 125 43)Iʻ 4>ʻ H 2@ A5 9 Iʻ 3@ʻ 8 ʻ* 7 ʻ 8ʻ54ʻ62: ʻ 6 @ʻ 48 ʻd 16ʻ 2>? 8 35ʻ%4>ʻ345ʻ G 55 3?ʻ56 ʻA27ʻ4%ʻ 4)ʻ23@ʻ 8 ;>21 3?ʻ56 ʻ#4 B Aʻ 6 > %4> ʻ ; 9ʻ56 ʻ 148B2> 43ʻ56 ʻ B4 5A ʻ : >9ʻ2BB4 5 A9ʻ 6 7 ʻ56 ʻ* 7)ʻ 5625ʻ56 9ʻ14 A@ʻ345 ; ʻ? A59ʻ4%ʻ B > 5 2Aʻ2@ A5 >9ʻ 3ʻG 55 3?ʻ56 ʻ A27 ʻ %+ʻ ((+
': N ʻ T 9 ʻ (*ʻ %ʻ4 .* ʻ , ,ʻ *ʻ 3ʻ(A ʻ 6 ʻ1 > 843 2Aʻ A27)ʻ 54ʻ 76 16ʻ #4@ʻ25%> 5ʻ+4 3 @ʻ94)ʻ ʻ347ʻ@ 2@ʻ54ʻ 94)ʻ23@ʻ94 ʻ54 5ʻ /(+
ʻ4/ʻ 3ʻ4*,/*ʻ 3%& 2Kʻ /ʻ56 ʻ1> 1% @ʻ;4@9)ʻ56 ʻ@ 256 4%ʻ 6> 5ʻ Aʻ ! *0,ʻ
ʻ T = ʻ 3 ʻ ʻ 3*$(,ʻ4%&0)ʻ *% 3ʻ %$&ʻ $0*ʻ *,ʻ+C 6 ʻ B4 5A ʻ 29)ʻ H ʻ5625ʻ ʻ 64 A@ʻ ;> 3?ʻ%4>56)ʻQ1 \ʻ54ʻ 6 7ʻ5625ʻ6 ʻ72 ʻ 3ʻ 56 ʻ 28 ʻ1>1 8 5231 ʻ7 56ʻ56 ʻ* 7 ʻ %+ʻ5 80&)8 ʻP7*.8 + >ʻ+ &0ʻ 3ʻ(3C 625ʻ)ʻ 3ʻ 2ʻ 148B2>25 : A9ʻ12>32Aʻ 525)ʻ 23@ʻ 7 564 5ʻ56 ʻ?>21 ʻ4%ʻ56 ʻ B > 5)ʻ76 16ʻ72 ʻ 4 >ʻ143@ 5 43)ʻ 76 A 5ʻ : ʻ7 > ʻ 3@ >ʻ56 ʻA27)ʻ23@ʻ> 5 @ʻ43ʻ56 ʻ12>32Aʻ4>@ 3231 ʻ 4%ʻ5ʻ %+ʻ ((+
T T ʻ 3ʻ 0*&*0ʻ* ʻ &&& ʻ 63&.3ʻ 6 %ʻ 4/ʻ 3ʻ(ʻ 64 ʻ 3% Aʻ @ > ʻ 23@ʻ2%% 15 43)ʻ 76 16ʻ 7 > ʻ %4>; @@ 3ʻ ; 9ʻ@ ʻA27)ʻ23@ʻ 4ʻ 7 > ʻ > 3@ > @ʻ 84> ʻ 1> 8 32Aʻ ; 9ʻ ; 3?ʻ B>1%% ; 5 @ʻ %+ʻ ! E *0,+ >ʻ56 ʻB6>2)ʻ 76 16ʻ7 > ʻ ; 9ʻ56 ʻA27)\ʻ 829ʻ ; ʻ> 3D @ > @)ʻ[ʻ 76 16 7 ʻ 62@ʻ 3@ >ʻ 56 ʻA27 -ʻ > ʻ " ʻ /(ʻ %+ʻ 5 .80&)3(+
ʻ ,&,ʻ 6*%8ʻ&0ʻ*$%ʻ 4,% C Hʻ 8 ; > Iʻ6 > ʻ @4ʻ 345ʻ ?Z 3 %9ʻ ; 2> A9ʻ 56 ʻ %A 6A9ʻB2>5 ʻ 4%ʻ'56 ʻ ;4@9)ʻ 3ʻ 2ʻ > 5>2 3 @ʻ 3)ʻ ; 5ʻ56 ʻ23 82Aʻ%21 A5 ʻ 23@ʻB47 > .ʻ2AAʻ 3ʻ ʻ5625ʻ ʻ 8 BA49 @ʻ2 ʻ 23ʻ 3 5> 8 35ʻ 3ʻ56 ʻ 74>< ʻ4%ʻ56 ʻ %A 6)ʻ76 16ʻ 2> ʻ > 1<43=ʻ B ʻ #2Aʻ , ʻ / J т F/'+ʻ 48 ʻ4%ʻ596 16ʻ@4ʻ345ʻ> G > ʻ56 ʻ8 8 ; > =ʻ4%ʻ4 >



! 334 #"2 B /%) ' B "4(6!) /%) 6" ' 1 ") I / 4) B /%) /%) *!) /%) 6" ;
(E #) / *1 ' 6") /%) B / '< / ' B "4(6 1")! ' <"1+*1) 41) ") / *' (%B) /%) #-'#$ 0" "6
" B) / *1 ') '+ 1" & "2*) /%) 6" ')! -4) +'1) /%) 6 B *(/ '1 & *
AJ "2 . 1 "B) /%) '1 & *' ^) /%) '+!' 1 & #(*+ / !N 6 B *((*) / 1" 0" "6) / '10 #"2)" B '(('+ K2*+*1) B ') / & * -4) 8*6)" K*2#"2 &;) /%) B / '< / '+ 0" "6 #'16 1")
" "2) / *' 0" "6) /%) B "4(6 6" 1") -4)) / *' *5'(B / '< / B "4(6 1")!) /%) 6"
5 *' (' ' 5 "/(# ' ' ' # 6 ! ' ' ' (' %" # ' (5 // ' #' 6

5625 12>32A & 564 ?6 56 9 2> 52 ?65 56 >' @ 59 ; 9 56 A27) @4 345 16 56 3? 2 + >' 3@ > 523@ 3? 4>' 143 1 31) 56 3D 5> 15 @ 23@ @ > 15 @) 2BB>4: . ; 5 16 2 5 @ 2BB>4: 23@ 143@ 83 %+ ! *0,+
= 3 0 ', * 3 63&.3 6*$(,' 0* Q1 R 6 143 1 31 4% 16 8 3) 76 16 8 5 56 8 % >' 56 215 3?' 3' @ 4; @ 31 '54 56 A27) 23 21<347A @?8 35'5625 56 A27 5 A%) **,+ %+ ! *0,+ &
* 6 3 0 &' 0* *% ' 3 ', * `<7?' 9 6 I 2114>@ 3?' 54 56 ; 55 >' B2>5) %>48 76 16 ' 28 @ 3486 25 @. H ; 5 3 5625 @7 AA 56 3 8)I 5625) 3 8 9 %A 6) : > FS 2 23@ 12B5 :25 54 56 4; @ 31 4% 5 %+ 3&4/+
A &9 @ 53? 63?6 > 2A A%) 5625) 6 B > 5 2A B2>5) %>48 56 A%) 4>' %A 6 3 76 16 3 @7 A5) 23@ ; 9 7 8 >: 3?' 5625 56 : A 215 43 6 16 6 148 8 55 @ 7 > @43) 345 ; 9 6 8) ; 5 ; 9 3 @7 AA 3?' 3 6 8 .' 56 B4 5A @ @ 345 8 23- 54 5 2 6 5625 7 1< @ 8 3 2> 345 2114 352 ; A %4>' 56 >' 3) ; 5 54 82< 56 8 3 ; A 4% 56 : A 4% 56 >' 3) ; 9 6 7 3?' 56 8) 5625 56 9 2> 2AA 1 338 55 @ 3 @ > 15 4BB4 5 43 54 > 2 43 23@ 143 1 31) 56 B > 4 >' B2>5 4% 56 >' 325 >) 25 56 3 5 ?25 43 4% B2 43 23@ A 5) 56 A47 >' B2>5 '2>56 >) ; 9 2BB 2A 3?' 54 56 4BB4 5 43 76 16 > 2 8 23@ 143 1 31 82< 54 : A 215 43) 6 6256 4: >D 5 >3 @ 56 23@ 2>? 8 35) ; 9 76 16 56 7 1< @ + 5 %9 56 8D A: 3 3@ A? 3?' 56 >' A 5 29 56 9 31 # 4@ 62 ? : 3 B2 43 23@ 2BB 5 5 1 >52 3A9 8 235 5625 7 64 A@ ?>25 %9 56 8 >) 29 56 B4 5A K ; 5 #4@ 6256 2A 4 ? : 3 94 *0 23@ 143 1 31) 76 16 4BB4 56 C1 4% A 5) 23@ 143@ 83 5 ?>25 % 125 43 3@ 2 > 2 43 23@ 143 1 31 2> 56 => 4 >' B2>5 4% 8 3- 325 >) 2 84> 1 >52 3 3@ 125 43 4% 56 7 AA 4% #4@ 829 ; ?256 > @ %>48 56 >' 4B >25 43) 5623 %>48 56 8B A 4% 56 456 > %+ 5 .80&)3 +
F T &' & 0* *% ' 3 ', * & 4$ &0 3 ', 6 ((3 &0 7 6 4; + 15 43 2?2 3 5 56 A27 3 56 W56 : >) 56 % AA9 23D 7 > @ ; 9 6 7 3?) 5625 56 A27 %2> %>48 ; 3?' ? A59 4% 8 3- 3 23@ 5625 5 345 56 9) ; 9 56 143@ 15 23@ @ 1525 4% 56 A27) 4> ; 9 56 >' 473 143 1 31 ? @ @ ; 9 56 A27) 5625 @4 : A ; 5 56 >' 12>32A 31A 325 43) 4> 1 548 4% 3) 76 16 6256 ?2 3 @ 16 B47 >' 4: >' 56 8 %+ ! *0,+
P(+ &0, 3 0 (6 Q1 R &9 12AA 3?' 4 >' 3% @ 31A 325 43 \2 A27) I 56 B4 5A 5 216) 5625 56 9 2> 2 B> 31 BA 4% 215 43 2 5 2@9 23@ 143 5235 3 8 B AA 3?' 54 : A) 2 56 A27 4% #4@ ; 3 @ > 15 3?' 54 7625 ?44@ %+ 5 .80&)3 +
JJ T ; % 3 &06 %, 0 R 625) 3 56 8 3@ 4> + @?D 8 35) 2 56 B4 5A 35 >B> 5 6 8 A%) : > F0 % + 3&4/+ 23@ " +
5 345 5>) 5625) 3 5> 153 4% B 16) ((0 823 6256 4> ? 32AA9 34 B> 31 BA 4% 7625 > ?65 A %5 3 6 8 % 56 764A 72 A4 5 ; 9 56 %2AA) 48 7625 6256 ; 9 56 ? 3 >2A ?>21 4% #4@ ; 3 > 54> @ 31 4>) 564 ?6 5 2 A 256) 9 0 5625) 3 8 9 %A 6) @7 AA 56 34 ?44@ 56 3?) I : > /L) 9 5 6 2 56 4% 56 28 B > 43 G 1<A9 2%5 >) 9 @ A ?65 3 56 A27 4% #4@ 2%5 >' 56 372>@ 823 I 3@ 6 BB4 : 3 56 # 35 A 54 H @4) I 3 48 12 23@ 54 48 @ ?>) 9 56 56 3? 14352 3 @ 3 56 A27) \ 162B "' /N 3@ @ CB > 31 B>4:) 562 3454> 4 33 >

' #'16) / *1 > (%B S) /%) ! B / *1 B "4(6 6" 0" "6 ! *5 '(' +' K2*+*1) B ') / & * ! BB "2 6*('0 /) '1) / *' (%B ' "#' "6 %#) *2) / *' 1 B %26 & %1 =
JH 4) +**' %1 ") / *2 (%B '1 & & * & Y -*2+ ! B %22'10' %0%'1+)) / *' (%B ' "#' & & '16 ! %16 -2'10'10' & *' 1) "' <%K) '5')) "') / *' (%B ' "#' +'1' B / '< / '+' 1' & & * & -*2+
FN 7> 516 @ 823 5625 28 764 62AA @ A : > 8 %>48 M 56 -"6 4% 56 # @ 256^ =
J>) / %1 . " 6') / 2" 40 / '3*+4+ /2'+) "42' "26 ") / *1 B ') /) / *' & '16 & +*(#' +*25*') / *' (%B ' "#' " 6 -4) B ') /) / *' #(*+ /) / *' (%B ' "#'+'1

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5625 12>32A & 564 ?6 56 9 2> 52 ?65 56 >' @ 59 ; 9 56 A27) @4 345 16 56 3? 2 + >' 3@ > 523@ 3? 4>' 143 1 31) 56 3D 5> 15 @ 23@ @ > 15 @) 2BB>4: . ; 5 16 2 5 @ 2BB>4: 23@ 143@ 83 %+ ! *0,+
= 3 0 ', * 3 63&.3 6*$(,' 0* Q1 R 6 143 1 31 4% 16 8 3) 76 16 8 5 56 8 % >' 56 215 3?' 3' @ 4; @ 31 '54 56 A27) 21<347A @?8 35'5625 56 A27 5 A%) **,+ %+ ! *0,+ &
* 6 3 0 &' 0* *% ' 3 ', * `<7?' 9 6 I 2114>@ 3?' 54 56 ; 55 >' B2>5) %>48 76 16 2B5 8) 2%%4>@ ' > A %' 3' 2 56 % - . 2' 23@ 4' \ @ A D : > ' %>48 56 B47 >' 4% @2><3) 23@ 5>23 A25 ' 354 56 < 3?@48 4% @ 2>' 43) I 4A / 4-+ 8 %+
F T &0 / 4 % + 3 0* *0 162B : / H+
FN 6% .3 , 0 3 ' Q1 R 6 ' 2 2@ 143@ 5 43) 56 : >9 525 4% 2 12>32A 823 3@ >' 56 A27 .' 23@ 4 5 4% 76 16 56 A27 123345 > 1 239 823) A 4>' %>48 56 ' @ 5> 15 43 5625 255 3@ 5 %+ ! *0,+ 6 82 4% 372>@ 14>> B5 43) 76 16 @9% AA 3 56 88 52A 23@ 3% A %A 6 4% 8 3 -+ ! ((+ >) H 6 ; 4@9 4% 56 @ 256 I 2BB 2> 54 ; 23 8B625 12A ;>2 8) ?3 %9 3?' \ 56 ; 4@9) I 5625) 56 A 5 4% 56 ; 4@9) 76 16 12 56 @ 256) \ 5A @ 256 56> 25 3 @ 3 56 > 4% 56 A27 %+ 5 .80&)3 +
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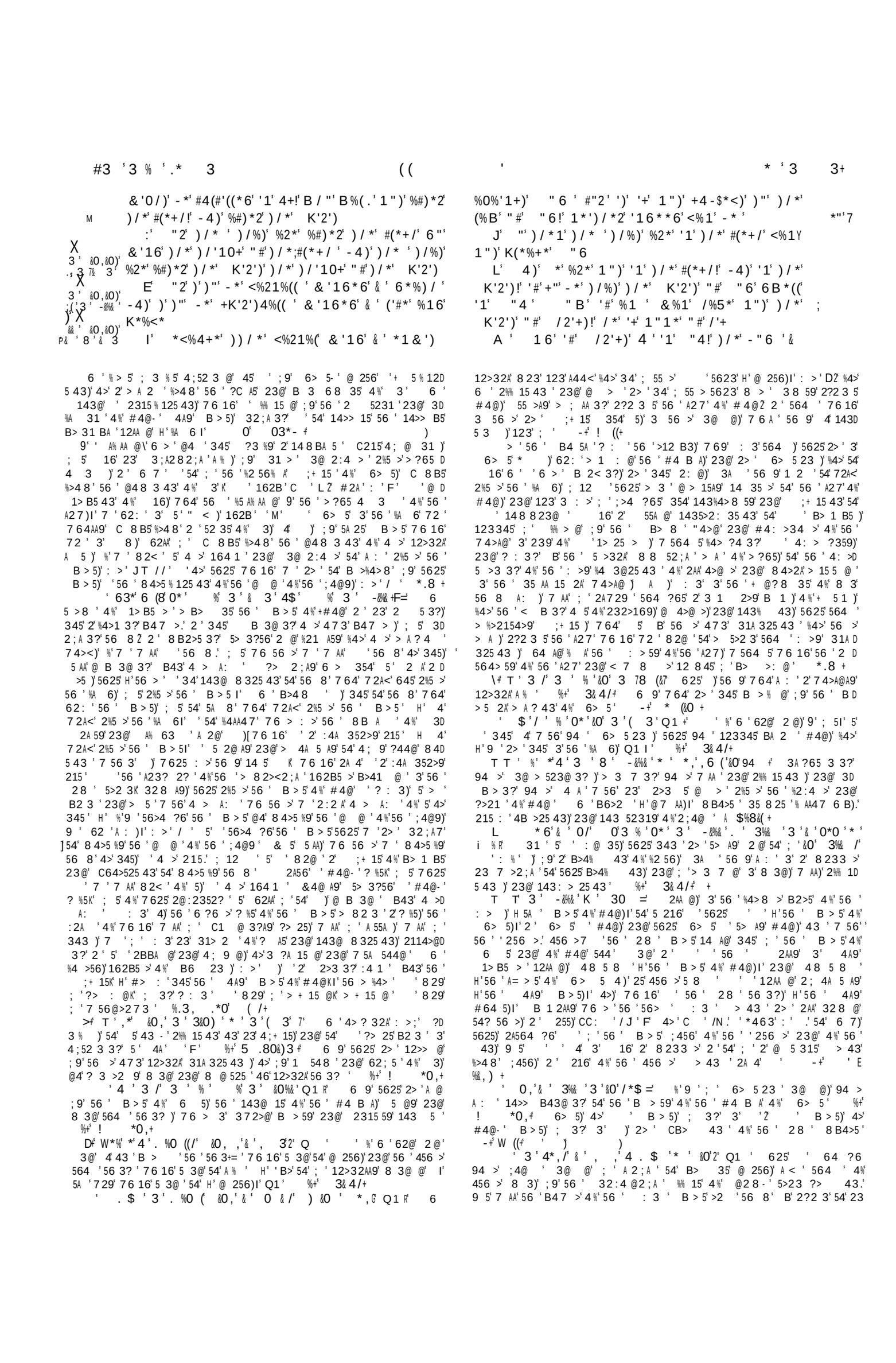
* 3 0 6&3 3 &0, / (%' 3 (6 * * , Q * 4 56 3 56 1431A 4&4% 56 @ = 43 %>48 : > W) 5625 56 ; 2> <347A @? 4% 56 A27 4% 4 43A9 @ > 15 56 3@ > 523@D 3?) 7625 4 > @ %9. 3457 56 523@ 3?' 76 16) 56 12>32A 823) 211 548 @ 54 56 729 4% 3) 829 5 AA B > : > 3 56 8 143D 5>2>9 54 56 ?? 5 8 4% 6 143 1 31) 23@ * ; + 5A9 > D 72>@ @ 7 56 @ 256 6 B6>2) H 89 A%) I 76 16 829 ; > 3@ > @ A 5 >2AA9) Q 6 28) - 8 23 43 23@ 56 28 B >D 43) 328 A9) 6 8) 7648 56 B4 5A 62 6 56 >54 B > 4325 @) 23@ 7648 ; 6 > @ 1> ; 2 143 5 3?' 4% 574 B2>5) 23@ 4 @4 3?' 574 56 3? 25 431 .' 7 56 6 3@ > 523@ 3?' >: 3?' 56 A27 4% #4@) 23@ 9 5 25 56 28 5 8 7 56 6 %A 6 ; 8 55 3?' 54 56 @ 1525 4% 3 %+ ! *0,+ 56 345 43 : > /W % 6 62@ 2@ 623< ; 54 #4@) ?>21 4 8 >19 23@ ?44@3 56>4 ?6 * &' 6> 5 @ A : > ; 9 56 B47 >% A 23@ %% 15 2A 845 : 23@ 6 AB 56 #4 B A 4 56 3) 54 6 5 B 56 @ 14 >) 56 8 23@ ; 5231 56 > 4% 56 K 235 1 @ 35A9 54 56 143 @ >25 43 4% #4 B A ?>2 56 56 143@ 5 43 4% 823. ; 9 2@ : > 59 4% 3@ 325 43 6 @>27 3 ; 9 @ %% > 35 8 45 25 43 23@ 56 28 5 8 5472>@ 4BB4 5 4 ; + 15 . ; 9 > 2 43 23@ 143D 1 31 3 56 B > 5 4% 6 473 8 3@ 6 4% 3 1 59 4 ; A ? @ 54 2BB>4: 3 (6 * * , 23@ 5>43 ?A9 3: 5 @ 54 215 3 143%4> 8 59 54 5625 4 ; A ?25 43) ; 5 6 ; 4@ A9 2BB 5 5 23@ @ >) 8 B4>5 D 325 54 ; >25 % @) 4%5 3 @>27 6 8 354 %4> ; @@ 3 215 43) 23@ 4 ; > 3?' 6 8 3@ > ; + 15 43 54 3 23@ @ 256 5 >32A. %>48 76 16 8 >2 ; A 525 6 23@ 123 ; @ A : > @ 43A9 ; 9 56 62 >19 4% 56 # 4 = A + , 6 %, +



00*' ' && ' .(/' 63 ' 3 ' (& ≠ F0' 3 ' . ((&0)' * 3 ' 0&(' 0,'% 7 . &0)' * ' 3 ' 6 ' 6 %' *% *(,≠ L' 3 '. $ ' 63/' *' 6' ' 4% . ,' 3 '%&)3 ' *$ 0 '* ' & 3+

')/*')24)/' '1' /2'+)!' '('*' 1")!' & ' <"1+<'*1<*' %(+"' -*%2'10' &*' B')1*++' '1')/*' "(' /"+)!

9' /%)' A' /%5*' 02*%)' /*%5'1*++' %16'<"1Y)'14%(' +"22"B' '1' & ' /*%2)

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6 8 A%' 54' @ 256)' 54' 2: >5' 239' B ;A 1<' + @?8 35' HS>' 12A2 8 59' 6 ' 4> ? 32A' 74>@' H' 23256 82I' ' 4' @' 3' 56 ' 4A@' #> A' >5 > ' 0' $.8 %' %83$% ≠ 48B2>' C4@' CCC ' L.' 23' '56 ' 345 ' 56 > ' 4>' 2' 823)' B43' 239' 2114 35' 7625 4 : >)' 54' ; ' 1435 35' 54' ; ' 148 ' ;+ 15' 54' 56 ' 1 > ' 4%' 6> 5)' 23@' 54' ' %32A' @ BA 2 >' ' 4' %2>' ; 943@' 56 ' 584 5' ;4 3@ ' : 3' 4%' 6> 5 23' 162> 59' 5' A%)' 5625' 5' ' 55 >A9' 3143 5 35' 7 56' 56 ' 325 > ' 4%' 2' >25 432' 1> 25 >)' 56 >' 5B' @ >)' 4>' 4' 8 16' 2 ' 54' ; ' 12B2;A ' 4%' ; 3.' B> :2 A @' 7 56' : 3' 54' ; 8 5' 54 ' 5' ' 1 >52 3' 56 > %4> ' 56' 8 23 3?' 4%' 56 ' B4 5A ' 62 ' ; 3' 8 3@ > 544@)' 23@' 5625' 6 ' 3' 5 35' 3' 56 ' B2 2?' 72 ' 645' 54' 7 6' 6 8 A%' ;+ 15' 54' 56 ' 5 >32' 7>256' 4%' #4@)' 7 6 16' ' 55 >A9' 8 B4 ;A ' 23@ 2; >@)E' ;+ 5' 56' 7 6 3?' 6 8 A%' 211 > @' %>4 8' 6> 5' %4>' 56 ' 2< ' 4%' 6 ')/ 325 43' 23@' B 4BA)' '54' 7 6' 5625' %' 5' 72 ' B4 ;A E' 6 ' ;9' ; 2>' 3?' 6 8 A%' 56 ' 5 8 B4>2A'+ @?8 35 ' 7 6 16' 6 ' 27' 14 8 3?' B4' 56 8' B43' 2114 35' 4%' 56 >' ; 3?' 211 > @' %>4 8' 6> 5' 56>4 ?A' 56 >' 473' 4; 5 3219' 23@' 31> @ A 59)' 8 ?65' > 54> ' 56 8' 2?2 3' 5' 56 '%2:4 >' 4%' #4@' 6 ' B > 43)' %4>' 7 64 8' 5' 2 A' 14 A@' %3' 3' 6 ' 6 2>5' 54' %% >' 56)' 2> ' 56 ' * 7 6' 325 43 ' 47' 325 43' 123' ; ' B 3 6 @)' 2 ' 16)' 43A9' 3' 56 ' 74>A@)' 23@' 56 > %4> ' 2 ' 56' 1 > ' 6 > ' B4< 3' 4%' ' 325 432A' 5' 8 5' ;' 5 8 B4>2A' +' , 6 %, + N' 3*' %' % (& ' + 625')' B > 43 ' @ 1 3@ @' %>4 8' 43' 764 ' %2 56' 23@' : >5 ' 7 > ' 4' 8 3 35)' 5625' 2 ' 2' B> 31 ' 6 ' B> ' :2 A @' 7 56' #4@)' 23@' 4' 72 ' @ 348 325 @' >2 A)' 2 ' 2' 82><' 1 #4@-' 2%% 15 43)' # 3 ' CCC ' FL ' %+' 3& 4/+ ' *' 63* ' - % &0 3' 3 ' ,*-"*0 ' #4@' 62: 3?' 473 56 8' 2 ' 43 ' 23@' % > 5;4>3)' C4@' : ' FF)' F .' 4 ' C ' ' %+' 3& 4/≠]) ' 0,' 3 ') (* % / 6 ' B> : A ? ' 4%' 62: 3?' #4@' B> > 28 43?' 56 8 ' ' 82+ 59' 6 3 3?)' 2 ' 5' @ @' 3' 56 '2><)' /' 28 ' >' F / .' ' CCC ' ' %+' ! *0,+ ' 0,' 3 ' .*' 0 0 ' ' 2@ ' 7 56' ;>2628)' #2A ' 6 ' /W 23@' 7 56' 4)' C4@' CC : ' L 56 ' 574' 14: 3235 ' #2A ' : ' JY 56 '4A@' 23@' 3 7' 14: 3235)' * >' CCC ' H2 CCC ' N ' %+' 8& 4 ' 0,' 3 ' %'&. ' * ' *, ' 6 'B> 1> ; @' 8233 >' 4%' 74 6 B' 2BB4 35 @' ; 9' #4@' 8 A%' %+' ! *0,+ >+' 3* ' % ' 3 3 % A ' 64' 2> '@ 1 3@ @' 4%' 56 'B25> 2>16' ;>2628)' 221)' 23@' *214;' %+' ((+ 0,' * '63* ' '.*0. %0&0)' 3 7(3' 3%& '. ' ; 3 ;4>3' 4%' 43 ' 4%' 56 >' 325 43)' 23@' 4' 2114>@ 3?' 54' 56 ' %A 6' 56 ' 4%% B> 3?)' : 3')' 9' 764 I' 2114>@ 3?' 54' ' @ : 3 ' 325 > ' 4: >' 2AA)' #4@' ;A @' %4>' : >' 8 3 I' %+' 3& 4/≠ 6 .' 74>@ ' 2> ' 4' 1A 2>' % B>44%' 4%' 56 ' @ : 3 59' 4%' 6> 5)' 5625' 56 ' 143% 5 '%'26 > ' B43' 5625' ;+ 15 ' %+' ! *0,+ 5' ' : @ 35' 5625' 6> 5' ' 6 > ' 12AA @' #4@)' : 3' ' 764' 128' 4%'56 ' * 7)' 564 ?6' 345' 2 ' ' 128 '%>48' 56 8)' 5625')' 2114>@ 3')' 2 ' 56 ' 231 35 ' 35 >B> 5' 5 ' %' 5' 7 > ' B>4B >' 54' 8 2< ' 16' 7 6)' %' 5' 14 A@' 2:2 A' 54' 82< ' 4' ?> 25' 2' 8 A5 5 @ ' 62BB9)' ' 14 A@' : 3' 7 6' 4' ?> 25' 2' ;A 3?' 54' 8 9' ;> 56> 3)' 564 ?6' 25' 56 ' A4 ' 4%' 8 9' 47 3' 62BB 3 ' %+' 3& 4/+ >)' Q' '14 A@' 7 6' 54' ; ' 8 2@ ' 23' 23256 82)-' 2' B > 43' B2D >25 @' 54' @ 5> 15 43.' 6 ' 74 A@' 62: ' ; 3' 1435 35' 54' 62: ' @ D :45 @' 6 8 A%' 54' @ 256)' 2 ' 2' :4A 352>9' 4%% > 3?)' 4>' CB 254>9' 2D 1> % 1)' %' ; 9' 5625' 8 23 ' 6 ' 14 A@' 62: ' B> : 35 @' 56 ' > 3' 23@' > D + 15 43' 4%' 3& ' .*$0 %/ 0# 6 ' 72 ' 2' 729' 4%' B 2< 3?' 7 AA' 3@ > 544@' ; 456' ; 9' * 7 ' 23@' # 35 A ' 3' 564 ' 5 8 ' .' 23@' ?3 D % @' 56 ' 6 ?6 5' @ ?> ' 4%' B25> 45 8' 4>' B ;A 1<' B > 5'+' 32 8 A9)' 4 X%' 2 ' %4>' 239' 43 ' 54' 4%% >' 54' A29' @473. 6 ' A %)' 23@' @ :45)

7 %' 3 ' 6 + A %<<42+*6' #2" &' /2'+)' #"2' & ' -2*)/2*1!' 11" & ' .'1+&*1' %<<"26'10')"')/*' #(*+/' C' /"' %2*' +2%*(')*+')"' B/" & P*2 ' 1"2! &0 3')/*' %6"K)'"1!' %K6')/*' 0("2 !' %16' Q - ,+)/*' A<"5*1%1)+!' %16')/*' 0'5'10' "#')/*' (%B!' %"2! %16')/*' +*25'<*' * ' *, ' %16')/*' K2" ' &'+*+ :' /"+*' % ')/*' #%)/*2+!' %16' "#' B/" &' %+' <"1<*21'10')/*' #(*+/' /2'+)' . ' B/"' '+' "5*2' %((!' "6' -(*++*6' #"2' *5*2' & *1 ;

6 8 A%' 54' @ 256)' 54' 2: >5' 239' B ;A 1<' + @?8 35' HS>' 12A2 8 59' 6 ' 4> ? 32A' 74>@' H' 23256 82I' ' 4' @' 3' 56 ' 4A@' #> A' >5 > ' 0' $.8 %' %83$% ≠ 48B2>' C4@' CCC ' L.' 23' '56 ' 345 ' 56 > ' 4>' 2' 823)' B43' 239' 2114 35' 7625 4 : >)' 54' ; ' 1435 35' 54' ; ' 148 ' ;+ 15' 54' 56 ' 1 > ' 4%' 6> 5)' 23@' 54' ' %32A' @ BA 2 >' ' 4' %2>' ; 943@' 56 ' 584 5' ;4 3@ ' : 3' 4%' 6> 5 23' 162> 59' 5' A%)' 5625' 5' ' 55 >A9' 3143 5 35' 7 56' 56 ' 325 > ' 4%' 2' >25 432' 1> 25 >)' 56 >' 5B' @ >)' 4>' 4' 8 16' 2 ' 54' ; ' 12B2;A ' 4%' ; 3.' B> :2 A @' 7 56' : 3' 54' ; 8 5' 54 ' 5' ' 1 >52 3' 56 > %4> ' 56' 8 23 3?' 4%' 56 ' B4 5A ' 62 ' ; 3' 8 3@ > 544@)' 23@' 5625' 6 ' 3' 5 35' 3' 56 ' B2 2?' 72 ' 645' 54' 7 6' 6 8 A%' ;+ 15' 54' 56 ' 5 >32' 7>256' 4%' #4@)' 7 6 16' ' 55 >A9' 8 B4 ;A ' 23@ 2; >@)E' ;+ 5' 56' 7 6 3?' 6 8 A%' 211 > @' %>4 8' 6> 5' %4>' 56 ' 2< ' 4%' 6 ')/ 325 43' 23@' B 4BA)' '54' 7 6' 5625' %' 5' 72 ' B4 ;A E' 6 ' ;9' ; 2>' 3?' 6 8 A%' 56 ' 5 8 B4>2A'+ @?8 35 ' 7 6 16' 6 ' 27' 14 8 3?' B4' 56 8' B43' 2114 35' 4%' 56 >' ; 3?' 211 > @' %>4 8' 6> 5' 56>4 ?A' 56 >' 473' 4; 5 3219' 23@' 31> @ A 59)' 8 ?65' > 54> ' 56 8' 2?2 3' 5' 56 '%2:4 >' 4%' #4@' 6 ' B > 43)' %4>' 7 64 8' 5' 2 A' 14 A@' %3' 3' 6 ' 6 2>5' 54' %% >' 56)' 2> ' 56 ' * 7 6' 325 43 ' 47' 325 43' 123' ; ' B 3 6 @)' 2 ' 16)' 43A9' 3' 56 ' 74>A@)' 23@' 56 > %4> ' 2 ' 56' 1 > ' 6 > ' B4< 3' 4%' ' 325 432A' 5' 8 5' ;' 5 8 B4>2A' +' , 6 %, + N' 3*' %' % (& ' + 625')' B > 43 ' @ 1 3@ @' %>4 8' 43' 764 ' %2 56' 23@' : >5 ' 7 > ' 4' 8 3 35)' 5625' 2 ' 2' B> 31 ' 6 ' B> ' :2 A @' 7 56' #4@)' 23@' 4' 72 ' @ 348 325 @' >2 A)' 2 ' 2' 82><' 1 #4@-' 2%% 15 43)' # 3 ' CCC ' FL ' %+' 3& 4/+ ' *' 63* ' - % &0 3' 3 ' ,*-"*0 ' #4@' 62: 3?' 473 56 8' 2 ' 43 ' 23@' % > 5;4>3)' C4@' : ' FF)' F .' 4 ' C ' ' %+' 3& 4/≠]) ' 0,' 3 ') (* % / 6 ' B> : A ? ' 4%' 62: 3?' #4@' B> > 28 43?' 56 8 ' ' 82+ 59' 6 3 3?)' 2 ' 5' @ @' 3' 56 '2><)' /' 28 ' >' F / .' ' CCC ' ' %+' ! *0,+ ' 0,' 3 ' .*' 0 0 ' ' 2@ ' 7 56' ;>2628)' #2A ' 6 ' /W 23@' 7 56' 4)' C4@' CC : ' L 56 ' 574' 14: 3235 ' #2A ' : ' JY 56 '4A@' 23@' 3 7' 14: 3235)' * >' CCC ' H2 CCC ' N ' %+' 8& 4 ' 0,' 3 ' %'&. ' * ' *, ' 6 'B> 1> ; @' 8233 >' 4%' 74 6 B' 2BB4 35 @' ; 9' #4@' 8 A%' %+' ! *0,+ >+' 3* ' % ' 3 3 % A ' 64' 2> '@ 1 3@ @' 4%' 56 'B25> 2>16' ;>2628)' 221)' 23@' *214;' %+' ((+ 0,' * '63* ' '.*0. %0&0)' 3 7(3' 3%& '. ' ; 3 ;4>3' 4%' 43 ' 4%' 56 >' 325 43)' 23@' 4' 2114>@ 3?' 54' 56 ' %A 6' 56 ' 4%% B> 3?)' : 3')' 9' 764 I' 2114>@ 3?' 54' ' @ : 3 ' 325 > ' 4: >' 2AA)' #4@' ;A @' %4>' : >' 8 3 I' %+' 3& 4/≠ 6 .' 74>@ ' 2> ' 4' 1A 2>' % B>44%' 4%' 56 ' @ : 3 59' 4%' 6> 5)' 5625' 56 ' 143% 5 '%'26 > ' B43' 5625' ;+ 15 ' %+' ! *0,+ 5' ' : @ 35' 5625' 6> 5' ' 6 > ' 12AA @' #4@)' : 3' ' 764' 128' 4%'56 ' * 7)' 564 ?6' 345' 2 ' ' 128 '%>48' 56 8)' 5625')' 2114>@ 3')' 2 ' 56 ' 231 35 ' 35 >B> 5' 5 ' %' 5' 7 > ' B>4B >' 54' 8 2< ' 16' 7 6)' %' 5' 14 A@' 2:2 A' 54' 82< ' 4' ?> 25' 2' 8 A5 5 @ ' 62BB9)' ' 14 A@' : 3' 7 6' 4' ?> 25' 2' ;A 3?' 54' 8 9' ;> 56> 3)' 564 ?6' 25' 56 ' A4 ' 4%' 8 9' 47 3' 62BB 3 ' %+' 3& 4/+ >)' Q' '14 A@' 7 6' 54' ; ' 8 2@ ' 23' 23256 82)-' 2' B > 43' B2D >25 @' 54' @ 5> 15 43.' 6 ' 74 A@' 62: ' ; 3' 1435 35' 54' 62: ' @ D :45 @' 6 8 A%' 54' @ 256)' 2 ' 2' :4A 352>9' 4%% > 3?)' 4>' CB 254>9' 2D 1> % 1)' %' ; 9' 5625' 8 23 ' 6 ' 14 A@' 62: ' B> : 35 @' 56 ' > 3' 23@' > D + 15 43' 4%' 3& ' .*$0 %/ 0# 6 ' 72 ' 2' 729' 4%' B 2< 3?' 7 AA' 3@ > 544@' ; 456' ; 9' * 7 ' 23@' # 35 A ' 3' 564 ' 5 8 ' .' 23@' ?3 D % @' 56 ' 6 ?6 5' @ ?> ' 4%' B25> 45 8' 4>' B ;A 1<' B > 5'+' 32 8 A9)' 4 X%' 2 ' %4>' 239' 43 ' 54' 4%% >' 54' A29' @473. 6 ' A %)' 23@' @ :45)

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334 ' ")'%+')/"40/')/*' B"26' "#' "6' /%)/'
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+2%*(!' B/'</'%2*' "#' +2%*(
I' *')/*2!' -*<%4+*')/* '%2*')/*' +**6' "#'
678'&' -2%/%&!' %.' 3 /' %((</'(62*1' -4)!' 7 1
+%%<'+/%((')/ ' +**6' -*' <%((*6
' /%)'+' /* ' B/'</'%2*')/*'</'(62*1'
"#')/*'#(*+/!')/*+*' % ' 1")')/*'</'(62*1' "#'
"6 ' -4)')/*'</'(62*1' "#')/*' K2"&'+*' %2*'
<"41)*6'#"2')/*' +**6
'# 3' ' "2')/'+' &a')/*' B"26' "#' K2"&'+*!' P)'
A2)/'+')'&*' B'((' <"&*!'%16' %2%/'+/%((' /%5*'
%'+"1
' 16' 1")' "1(' 3& Z -4)' B/*1' *

-*<<%' %(+"' /%6' <"1<*'5*6' - ' "1*!' ' 0' - '
"42' (%)1*2' +%%<' *"
' ^ "2' 3'.3&(,% 0' -*'10' 1")' *)' -"21!'
1*')/*2' /%5'10' 6"1*' %1 '0""6' "2' *5'(!')/%)'
)/*' K42K"+*' "#' "6' %<<"26'10')"' *(*<)'"1'
&'0/)' +)%16!' 1")' "#'B"2.+!' -4)' "#'/'&')/%)'
<%((*)/' N
A9')' B%+' +%'6' 41)"' /*2' /*' ;' '*(6*2' ġ *1' $'
+/%((' +*25*')/*' ' "410*2
A?' +' ')''+' B2'))*1!' 83%<"-' /%5*' '("5*6!' ' '
-4)' +%4' /%5*' ' /%)*6' Ù
AC' /%)' +/%((' B*' +% ')(2*1 [' ' 3 %'41Y
2'0/)*"4+1*++'B')/' "6' ["6'#"2-'6' !'5' T
A:P' "2'/*' +%')/')"' "+*+!';A' B'((' /%5*' 7

= 2< @ ' 4%' H' 56 ' #4@' 23@' '256 >' 4%' 4 >' "4>@' * ' 6> 5)'
76 16' ' ;A @' %4>' : >84>)I' F 4>' C ' /.' 4%' 56 ' > 254>)'
764' ' ;A @' %4>' : >' 8 3)I' $48 ' 'F0.' 23@' 56 > ;9' @456'
?3 %9' 56 ' B> 33 ' 59)' 76 16' 72 ' 4' ?A4> % @' ;9' 56 ' >2 AD
5 '.' 23@' @456' 2A 4' 5 5 %9' 5625' 7 ' 74> 6 B' 56 ' 28 ' #4@' 3@ >'
56 ' #4 B A)' 76 16' 56 9' @ @' 3@ >' 56 ' "27 K' 4' @456' 6 ' B 2<' 4%'
6> 5' 3' 2 ' ;A 8 ' 2' 59A)' H' 764' ' 4: >' 2AA)' #4@' ;A @' %4>'
: >' 8 323@' 56 > ;9' @456' 5 5 %9' 56 ' G 2A 59)' 4>' >256 >'
@ 35 59)' 4%' ' 59 ' -+' % *0+
6 ' B4 5A ' 6 > ' 1A4 ' 56 ' AA 5> 4 ' 1252A4? ' 4%' 56 ' 8239'
?A4> 4 ' B> : A ? ' 56 ' * 7 ' 7 > ' %4> 8 >A9' 3@47 @' 7 56)' 7 56'
56 ' 8' 5452A' 23@' ; 5231 ' 4%' 2AA ' AA' 56 ' 8 ' 54' ; ' 35>4D
@ 1 @' 3' 4>@ >' 54' B 5' 56 8' B43' > %A 15 3?' 43' 56 >' 8 A23164A9'
5 25 43)' 23@' 56 ' ?> 253 ' 4%' 56 >' @473%2AA)' %' 56 9' 1435 3 @'
5 AA' 54' B >3' 25' 56 ' 8 564@' 4%' 2A:25 43)' 347' B>4B4 @' 54' 56 >'
211 B5231 ' 0' $.8 %+
M' * ' ' 3*$)3' 3 ' 6*%,'K ' *,'3 3' 8 0' 0*0 ' .+FN 6 '
B4 5A ' 6 > ' %4> 27' 23456 >' 4;+ 15 43' > 2@9' 54' 2> ' '4>' 54'
56 ' 56 ' * 7 ' 74 A@' > BA9)' 5625' 56 9' 14 A@' 345' ; ' 12 5' 4%%)' ; 12 '
4%' 56 ' B>48 ' 82@ ' 354' 56 >' %256 > ' & 5' 54' 56 ' 6 ' 23 7 >)'
5625' A8 ?659' #4@' 62@' 2A> 2@9' %A 1 35A9' % A% @' 56 ' B>4D
8)' 4>' 8 ?65' 52< ' 48 ' 456 >' 8 564@' 3' 56 ' 14 > ' 4%' '
B>4: @ 31 ' %4>' 56 >' 2114 8 BA 6 8 35.' 4' 5625' 56 ' 14 A@)' ; ' 34'
; 2>' 2?2 3 5' 56 >' B> 35' > + 15 43 ' H' 45)I' 29 ' 6)' H' 2 ' 564 ?6'
5 A ' 74>@' 4%' #4@' 6256' 52< 3' 343 ' %% 1556 25')' 5' 6256' 52< 3'
%% 1 35' %% 15' 54' + 5 %9' 56 ' @ : 3 ': >21 59' 3' 8 2< 3?' 56 ' B>4D
8 ' 4%' 23' : >A2 5 3?' 14: 3235' 54' 94 >' %256 >' ;>2628 ' H' ' 4>'
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' 2>' 56 ' @' 4%' ;>2628)' 2>' 56 9' 2 ' 16 A@> 3 I' ' %' 6 ' 62@'
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76 16' 143 5 5 5 ' 2' 5> ' >2 A 5)' 35 3@ @' ;9' 56 ' 14: 3235 ' 4'
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54' 56 8)' 564 ?6' 3' 23' 3@ > 15' 8233 >)' %4>' % 2>' 4%' ? : 3?' * 0. '
5625' 56 ' %2 56% A' # 35 A ' 7 > ' *% ' -%*- %(/' 3 ' @' 4%' ;>2D
628' 5623' 56 8 A: ' 4' 5625' 56 ' B>48 ' : 3' 56 ' 8 ?65' > D
1 : ' 5 ' 148 BA 5 43 ' 0' $.8 %+
W' T ' 3$+' 0' .' 3 ((3/' ,' 4 '. ((,+ Q1 R' 6 ' B4 5A '
6 > ' 52< ' 4112 43)' %>48' 56 ' 143 @ >25 43' 4%' 56 ' 325 > ' 4%' 56 '
B>48 ' 82@ ' 354' 56 >' %256 >)' 54' > 2 43' 7 56' 56 8)' 48 7625'
54' 56 '%4AA4 7 3?' %% 15 ' %' 94)' 8 9' 14 35>98 3)' 7 AA' ; 5' 255 3@'
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B 4BA ' 4%' #4@)' 23@ 3+49' 56 ' A23@' 4%' 23223' %4>' 56 >' B4 43 '
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@ 1 3@235 ' 4%' ;>2628)' 4%' 2>26)' 23@' 4%' 221.' B > 43 ' 54'
7648' 56 ' B>48 ' 62@' ; 3' CB> A9' A 8 5 @K $; 112' 72 ' 56 '
8456 >' 4%' 56 8' ; 45A .' 23@' 143 G 35A9' 56 > ' 14 A@' ; ' 34' B> '
% > 31 ' 3' 5625' > B 15' 6 ' 3%235 ' 7 > ' 9 5' 3;4>3.' 3 56 >' '
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; 112)' H' 7 4' 325 43 ' 2> ' 3' 569' 748 ;)' 23@' 574' 8233 >' 4%' B 4BA '
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94 3? > I' 6 ' 72 ' 56 ' B4 5 > 59' 4%' *214;)' 564 ?6' 56 ' 94 3? >'
;>2316)' H' A4: @I' 23@' B> % >> @)' ; 5' 5625' 4%' 2 ' H' 625 @)I' 5625')'
A ?65 @' 3' 148 B2> 43' 4%' 56 ' 45A >)' 345' G 2AA9' %2:4 > @' 23@' 2@D
:231 @' 0' $.8 %+
/ /' T ' 3 ' -$%-* ' * ' *,' ..*%,&0)' (*' , .&*0F= 625')' 56 '
B >B4 ' 4%' #4@' 3' 1644 3?' 4>' B> % >> 3?' 43 ' 325 43' >256 >' 5623'
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3& 4/' %83$% + 625' H' 56 ' B >B4 I' 6 > ' 8 35 43 @' > A25 '
4%' 56 >' @ 1 3@235)' ' # 3 ' CC: ' F)' 23@' 56 ' 345 '56 >
/ ' '& ' & ' %&& 0' Q1 R' ' 2 ' 'F)' 0, 3 '0* ' 3 % +
' .*4' 3 ' ' ' (*' , J' ' 5' : ' DT \+ 4 2'
56 ' 74>@' H' ; A4: @)I' 54' CB> ' #4@- ' > 54> 3?' 56 ' * 7 ' 54' 56 '
6434 >' 4%' ; 3?' ' 6 >16' 23@' B 4BA)' 2%5 >' 62: 3?' 12 5' 56 8'
4%%4>' 2' 5 8 ' ' : > ' F0 ' %+' 5 .80&)3 +
AT T' 4$' $' 3 ' ' '3 ,+C' 9' "4: 3?I' 23@' H' 625 3?I' 3' 56 '
;> 7' A23? 2? ' 4%5 3' ?3 %9' 34' 8 4> ' 5623' 1644 3?' 43 ' 56 3?'
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9' 25 @)I' 2 ' 2A 4' H' 62>@ 3 56)\' : >' /L)' ' 52< 3' 3 ?25 : A9)'
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*463' C ' N ' '4>' B4 5 : ' 62>@ 3 3?)' Q1 ' B> BB4)' 345' 43A9'
#4@- ' 7 AA)' ; 5' 823- ' 3' 2A 4' -+' W ((+
/N' 3 ' 3 ((&' ' /' 3 0' ' ' 3 % '$0%&)3 *$ 0 ' 6 & 3' *,]'
*,' *%4&,+C' ' %''6 ' 62@' 2 @' 43 @ >'2?2 3K' %' 5' 7 2 ' 34' 215'
4%' 3+ 5 1 '25'% > 5' 54' 1644 ' 94 'B> % >2;A9' 54' 94 >' A@ >';> 56> 3'
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432A' 1> 8 ' 23@' 3% @ A 59' ^' 0' $.8 %+
/0' W*%' 3 ' &3' *' 5* ' Q1 R' 4>' ' 5' 239' 7 >43?' @43 ' 94)'
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94 >' 47 3' 6 54>9' 3' 56 ' 8 255 >' 4%' 56 ' ?4A@ 3' 12A%)' 7 6 3' #4@'
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56 3' 3' 64>5)' 2 ' 54' 56 ' ?> 25' B4 35' 4%' 325 432A' B> : A ?)' 56 '
8' ' 56 K' 5' ' H' 345' 4%' 6 8 ' 5625' 7 AA 56)I' ; 12 ' ;>2628 '
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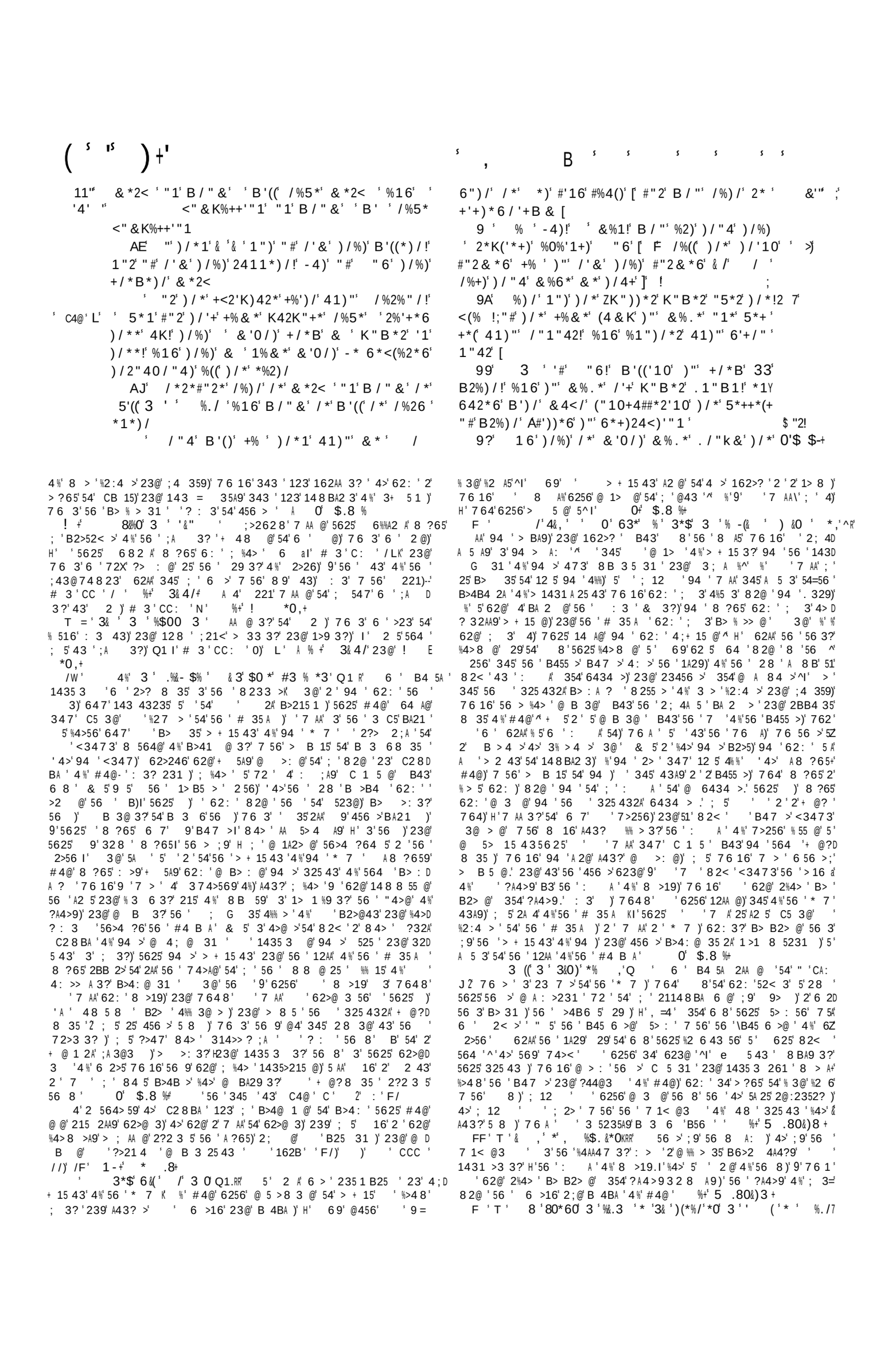

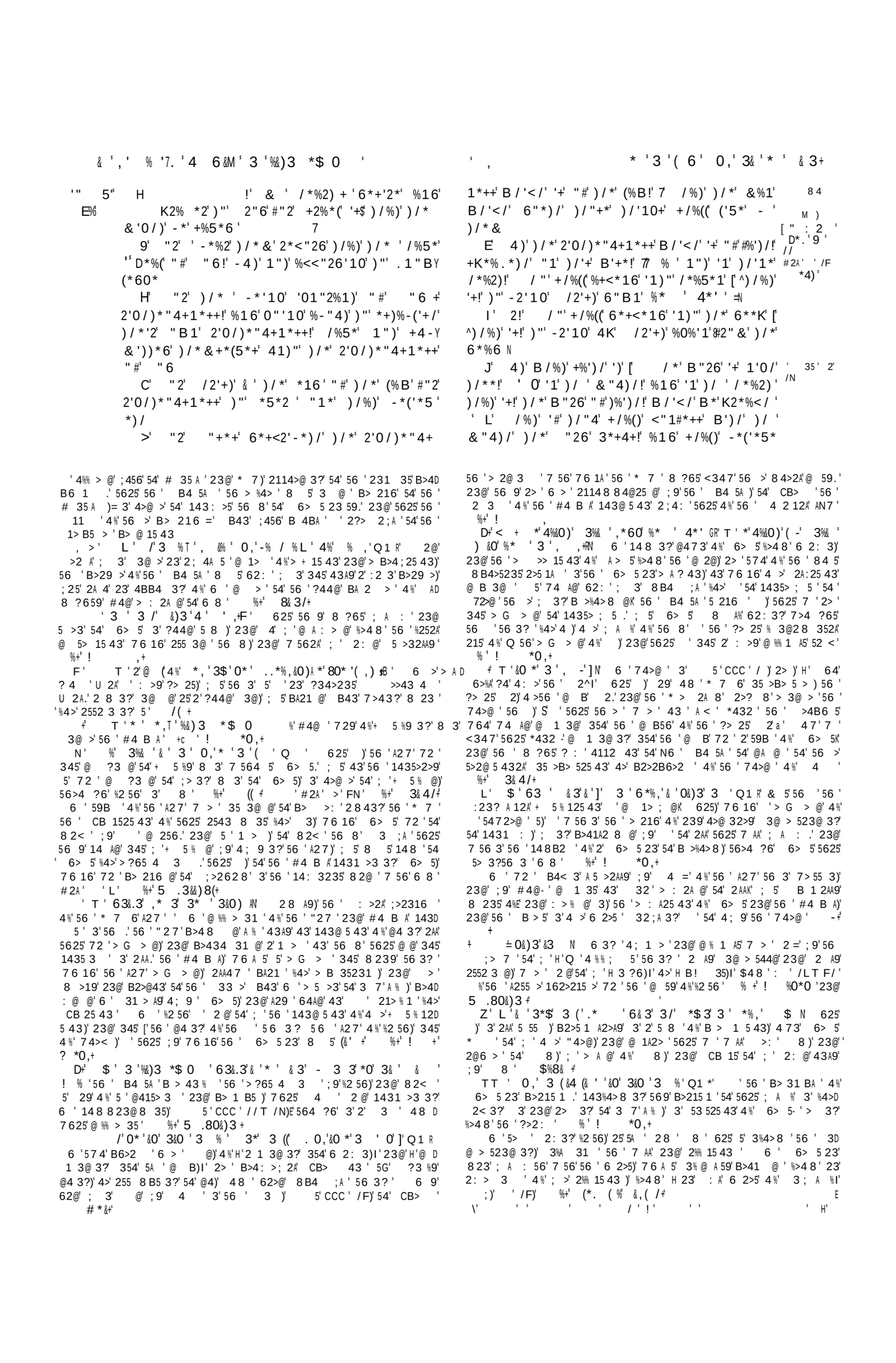

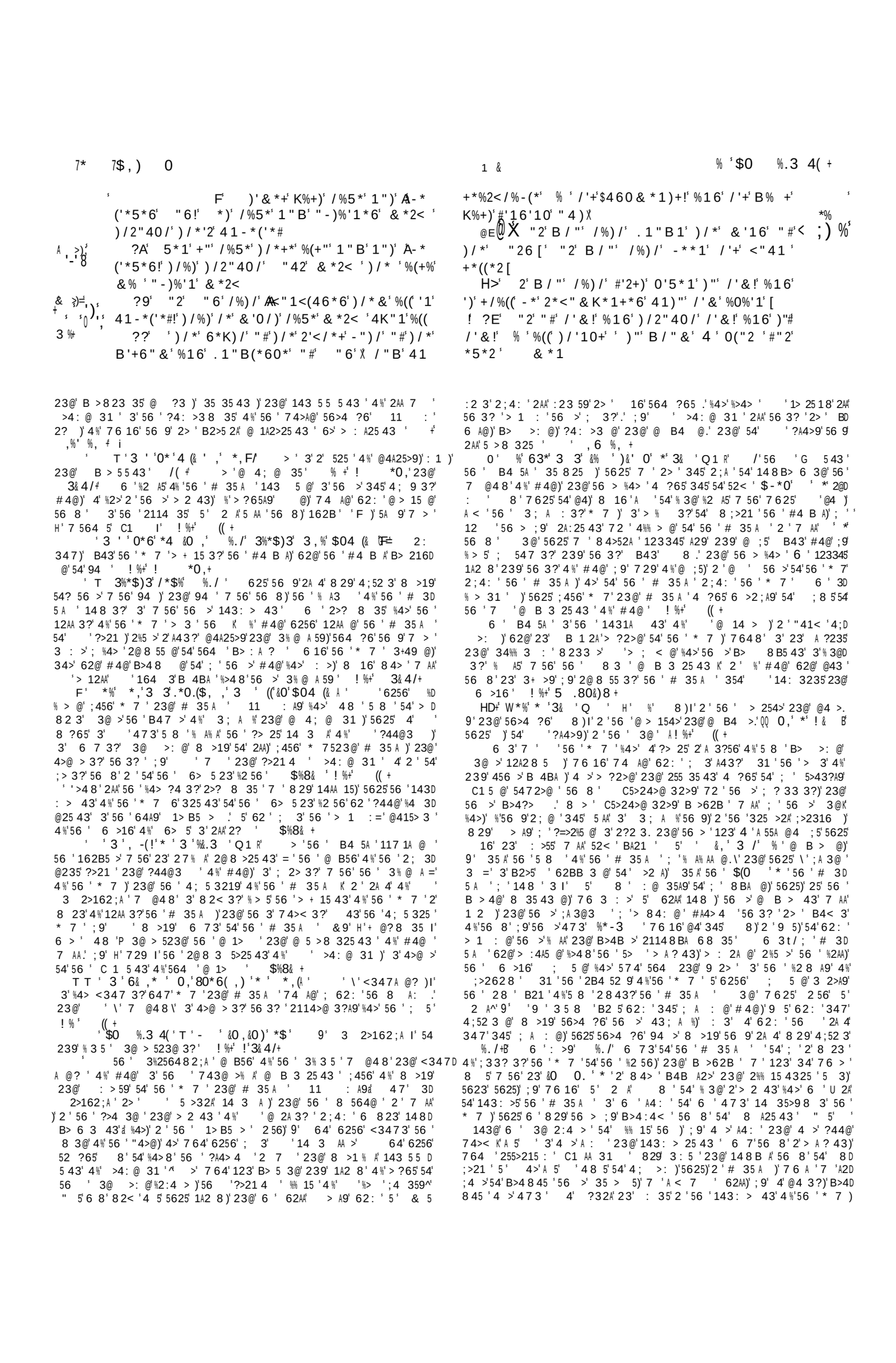

37/ ? - -#&$ -!$ / !%# $$&

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' +$ R)/.& $ ' 3&08$ **$%' "$ 3& (' D$ 3$' 0 ,$ ' %/$ *0 ' *0$ 3 $. ((&0)$ 63 % &0$ 3 $ & $ -(. ,# J$ *$ ' 0,$ 0/$ * 3 %' ,$" % $% K$&% ,$ $$ # /J$ ' 0) $ & $ - .& ((/$ *%4&, , 0+ ' $ "4$)/*2*#"2*!$ -2*)/2*1!$ - $)/*$ & *2<'*+$ "#$ "6!$)/%)$ *$ K2*+*1)$ "42$ -"6'*+$ %$ ('5'10$ +%<2'#'<*!$ /"(!$ %<<*K)Y <"26'10$ %+$ "6$ /%)/$ 6*%()$)"$ *5*2 $ &%1$ %-(*$ 41)"$ "6!$ &. 3$ & $ "42$ 2*%+"1%-(*$)/*$ & *%+42*$ "#$#%')/ +*25'<* 9$ 16$ -*$ 1")$ <"1#"2& *6$)"$)/'+$ B "2(6$ -"6 !$ %16$ %((* & *& -*2+$ /%5*$ 1")$)/*$ +%& *$ -4)$ -*$ *$)2%1+#"2& *6$ - $)/*$ 2*1*B'10$ "# "##'<*

"42$ & '16!$)/%)$ *$ & % $K2"5*$ B/%)$ & $)/%)$ 0""6!$ %16$ %<<*K)%-(*!$ 0!16$ K*2#*<)!$ B'((" "#$ *"$ "6 H$ "2$ $+% !$)/2"40/$)/*$ 02%<*$ 0'5*1$('1)"$ & *!$)"$ *5*2 $ & %1$)/%)$ '+$ % & "10$ "4!$ 1")$ Þ)"$)/'1.$ * $ 3& (' & "2*$ /'0/($)/%1$ /*$ "40/)$)"$)/'1. $ -4)$)"$)/'1.$ u+"-*2(!$ %<$)$ 2$ "42$ & '16!$)/%)$ *$ K2*+*1)$ "42$ -"6'*+$ %$ ('5'10$ +%<2'#'<*!$ /"(!$ %<<*K)Y <"26'10$ %+$ "6$ /%)/$ 6*%()$)"$ *5*2 $ &%1$ %-(*$ 41)"$ "6!$ & .3$ & $ "42$ 2*%+"1%-(*$)/*$ & *%+42*$ "#$#%')/ +*25'<* 9$ 16$ -*$ 1")$ <"1#"2& *6$)"$)/'+$ B "2(6$ -"6 !$ %16$ %((* & *& -*2+$ /%5*$ 1")$)/*$ +%& *$ -4)$ -*$ *$)2%1+#"2& *6$ - $)/*$ 2*1*B'10$ "# "##'<* C$ "2$ %+$ B*$ /%5*$ & %1 $ & *& -*2+$ '1$ "1*$ "##'<*

123345$; 5$4B >25 $2?2 3$43$56 $A < 72>8$23@$@ ? 3 >25 $325 43)$ 2 $7 AA$2 $43$564)5625$ 2> $ 5 AA$ 3143: >5 @)54 56 $ B>4@ 15 43$ 4%2 84> $BA 35 % A $23@$+49% A$ 62>: 5)$5623$6256$9 5$B >62B $; 3$ 3 $ H$ $4>$ %$56 $%2AA$4%$56 8$7 > $56 $ >16 $4%$56 $74>A@)$23@$ 56 $ @ 8 3 6 3?$4%$56 8$56 $ >16 $4%$56 $ # 35 A)$647$8 16$ 84> $56 >$% A3 $^ %$56 $12 5 3?$27 29$4%$56 8$7 > $56 $ > 143 $)) 1 A 3?$4%$56 $74>A@)$7625$ 62AA$56 $ > 1 : 3?$4%$56 8$;)$; 5$A % $ %>48$56 $@ 2@^I$ -+$! *%0

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A2>5 $3$5A $C >1 $4%$56 $ B>5 2A$?%5 62@$\52< 3$BA21)$4>$7 >$A < A9$54$52<$BA21)$25 $48)$2$25$ 4> 356)$/ 4>$C $AM.$25$ 6 A BB)$ 6 A$ $.$23@ 25$ 6 2A43 12)$/ 6 $:$)$F $ 6 $56 $B4 5A $?B@ 2:43> @$ 54$14>> 15$4>$B> : 35$;9$56 $C1 35$> A $B> 1> ; @$=3$5A $B2 D 2? $ %+$5 .80&)3+ $ 4&$*$ 3&08$ *4 %(/$..*%,&0)$ $ *,$3 3$, ($Q1 R$ 4 ;$1435 35$7 56$5625$B2>5$23@$ 525 43)$7A 16$56 $B>4: @ 31 $4%$ #4@)$23@$56 $?%5 :4 16 2% @$6 8)$62: $2AA455 @$54)$6 $ 62> $ 0$ 03*- + T 3Q $%$4%$ &3+J$ 9$ 2 56I$ $8 35 43 @$2$2$B2>5 D 'B 5%4>$2$56 $B>5 2A$?%5)/ 4>$C J & 5$6 >)$;9$23$ 2A$%?>)$5 $56 $ 76 16$ 6> 5$@ 5>; 5 @$54$216$ 5625$ 62> $ 76 16$ $+ @? @$B>1G >.$12AA @)$ B6 $:$W)H56 $8 2 >$4%$56 $?%5$4%$ 6> 5I$ &9$ C64>5 3?$56 $$4823 54; D 62: $7 A9$H$2114>@ 3?$54$56 >$8 2 >$4%$2 56)I$56 $ B4 5A $521 5A9$>B>4: @$ 16$4%$56 8)$2)$345$143 @ >3?$56 $325 >$4%$ 56 >473?%5)$2 B>@$54$4%% 1 $3$56 $ 6 >16)$%4>$76 16$56 9$ 7 >345G 2A% @$ %+$5 .80&)3+) N$T $&0$ *0$4*,/J j$ 325 >2A$;4@9$ %+$ 3&4/+ 6 $ 232A4?9$; 57 3$56 $325 >2A$23@$56 $89 5 12A$;4@9$ 4A 8 3A9$ 3 5 @$43$3$456 >$B2>5$4%$56 $ 7$ 528 35$ 0$ 03*- + T T $0,$(($4 %$3 $0*$3$ $*&. .R$ & 5$48)$2>

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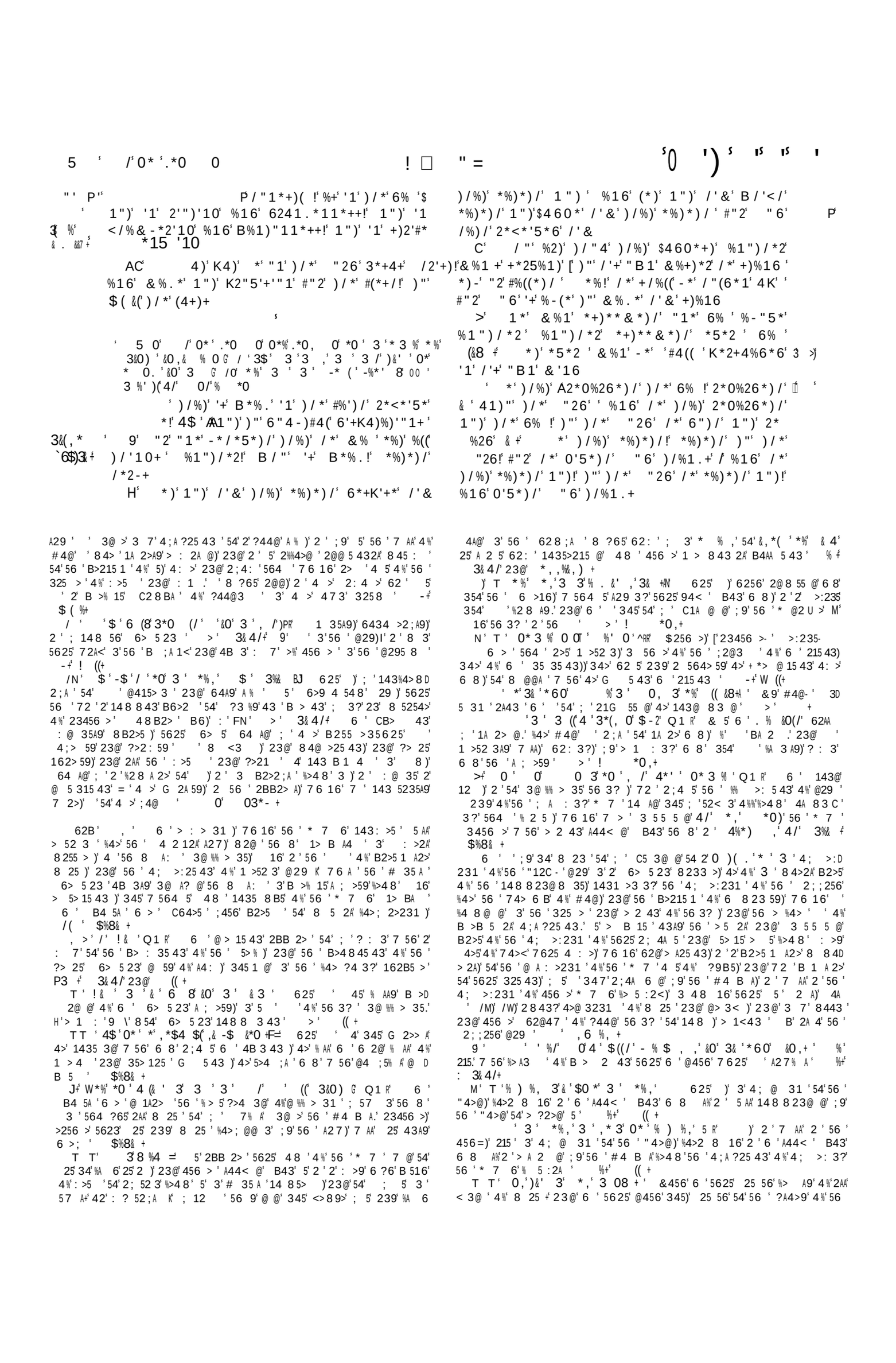
/ ' '8&0,(/' .&*0 ,'*0' *' 0*3 %' 3 ' 74>@' > 3@ > @' \' < 3@A9' 2%% 15 43 @)I' B>4B >A9' ?3 % '(*'&0)' 7 56' 5625' 5 3@ >' 2%% 15 43' 76 16' '325 >2A' ; 57 3' B2> 35 ' 23@' 16 A@> 3K' 6 > ' 5' 8 '54' @ 345' 5625' 2%% 15 43' 7%2 1 ' ; 5 ' ; 57 3' 3 2>' > A2D 5 43 ' %83$% +' +

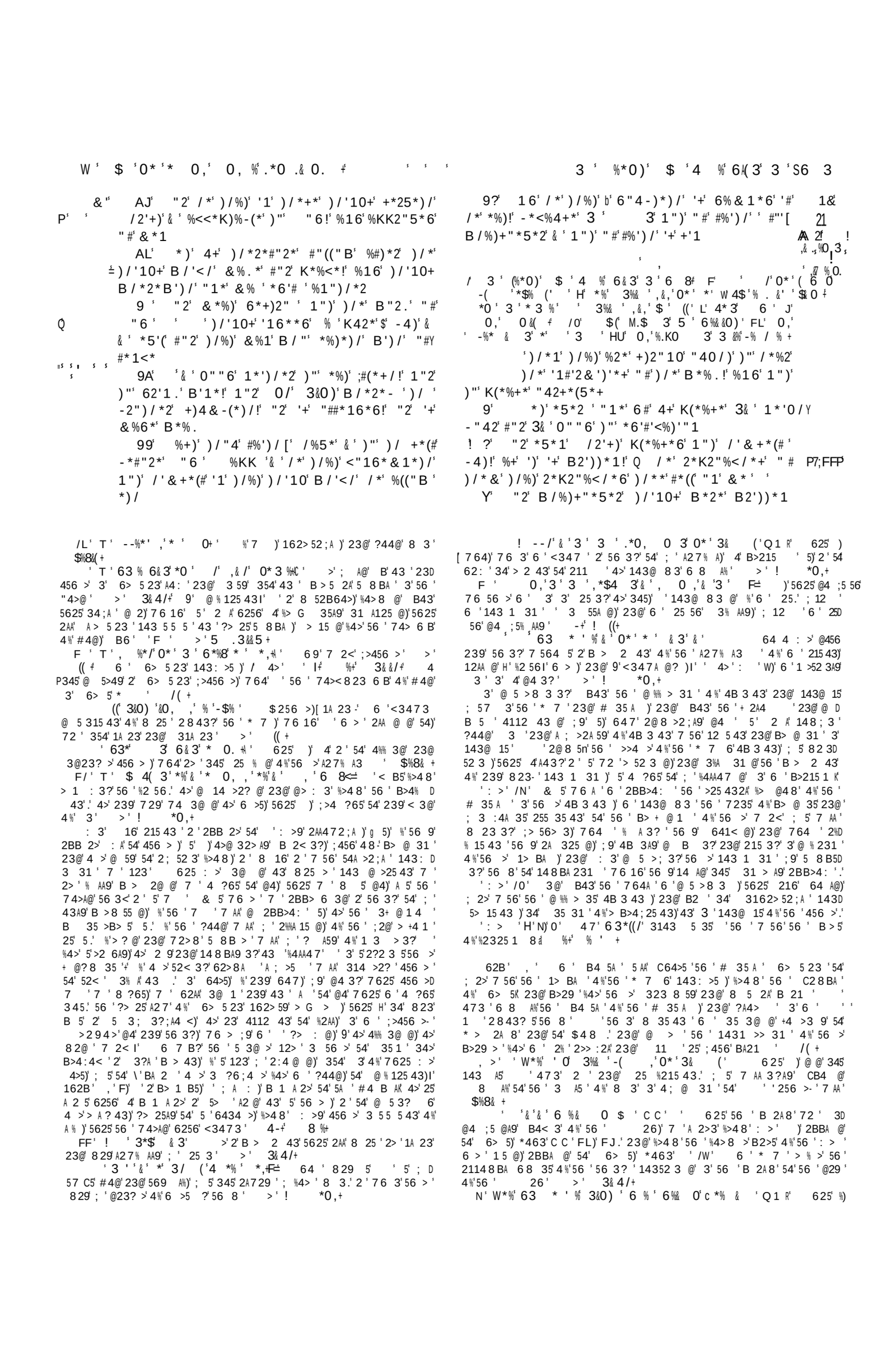
6&3'4%* 3 %(/'(*' 2 ' 45' ; 2> 3?' 43A9' 16' < 3@3 '54 43 '23456 >' 2 '148 8 43' 6 8 23 59' > G >)' ; 5' 16' 2 ' 56 '> A2D 5 43' 4%' = 5 23' ;> 56> 3' 23@' 56 ' ;43@ ' 4%' 143 23? 3 59' @ D 8 23@' %+' 3&4/

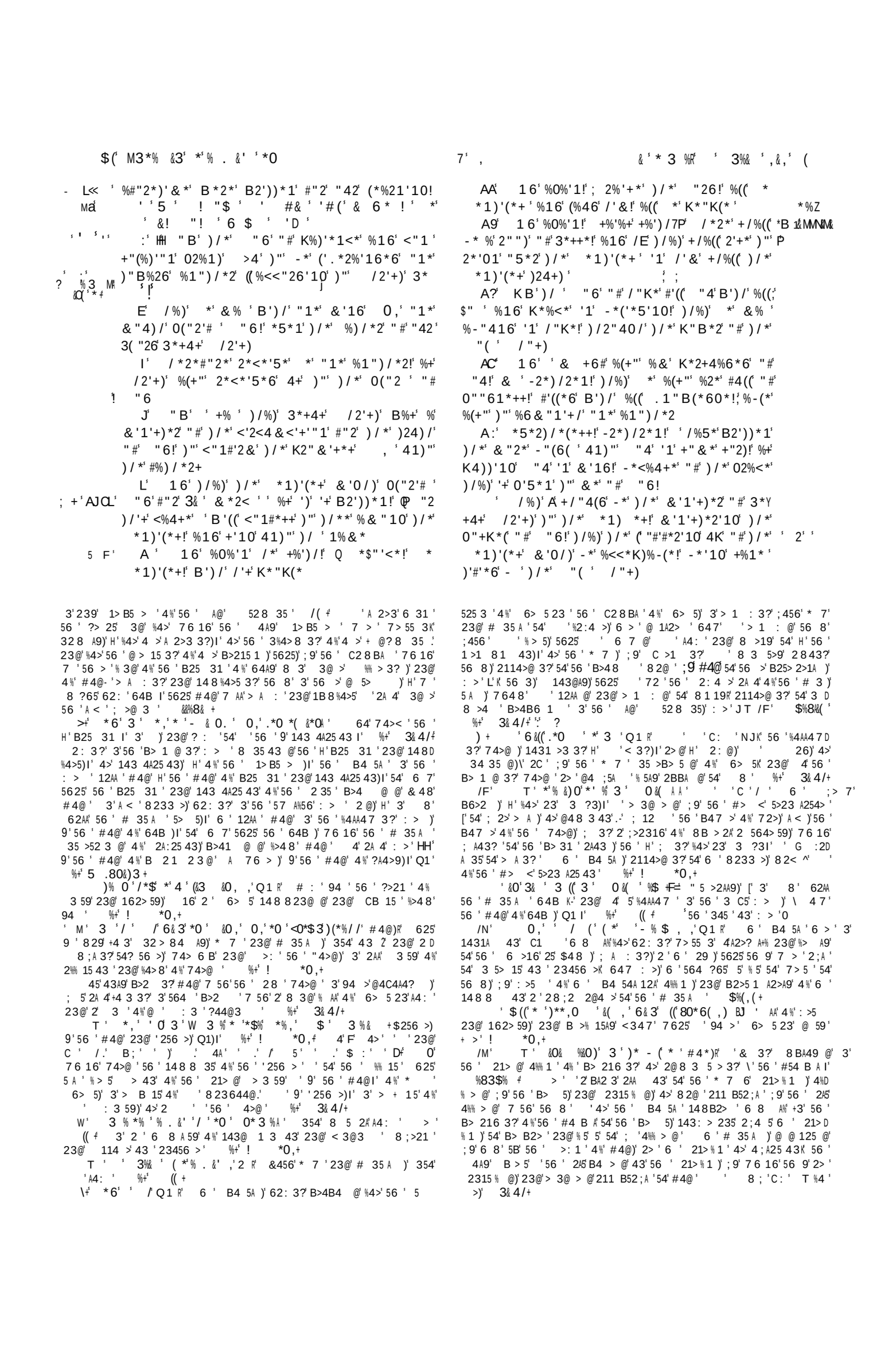
&0'3*0*$%' -% %%&0)' *0 ' 0*3 % & 3?' > 2@9' 54' 56 3< ; 55 >' 4%' 456 > '5623' 4%' 94 > A:)' 23@' 4' ; 3?' 1435 35' 54' 62: ' 456 > 'B> % >> @' ; %4> '94 ' %+' ((' 6 9' 2> '56 ' : >5 ' 4%' 8 <3 ' 23@' 6 823 59' 76 16' 5)' 2 A' 6256' 3' : 7)' 76 3' 6 ' C64>5 ' 6> 5 23 3' 6%434 >' 54' B> % >' 43 ' 23456 >)\' 54' 6 7' > B 15 23@' 1 : A 59' 54' 456 >)' 7 564 5' 7 2 5 3?' 54' ' 76 56 >' 56 9' 7 ' 6 7' 2 ' 8 16' 54' ' 3@' 5' 5 >-' @ > 15 43')' \' 434 >' 2A' 8 3 I' %' 56 > %4> ' > @ 3)' 23@' 36 8 23 59)' 23@' 62> 63 ' 4%' ; 62: 4 >' ; '%4 3@' 3' 6> 5 23)' 23@' 3' 6> 5 23 ' 764' B> D 5 3@' 54' ?> 25' 64A 3 =)' 23@' M &(' 23@' B 59)' 56 ' ' 345' 54' ; 'A2 @' 54' 56 '162>? '4%' 6> 5 23 59)' 4>' 4%' 564 ' 764' %>5' B> 216 @' 5.' ; 5' 5' '56 '%2 A5' 4%' 564 ' 764' 3@ > 523@' 345)' 4>' 2> ' 345' 7 AA 3?')54' 3@ > 523@)' 56 ' BA2 3' B> 1 B5 '4%' 56 ' #4 B A' %+' *%(&0+

//' * ' (* ` $('&0' 4$ &0 G Q1 ' 6 '3 C5' @ 59'> 148 8 3@ @' ' @ A ? 31 '23@' 8 @3 5>9' 3' 2AA' 4 >' @ 5 ';456' 54' #4@ 23@' 8 23)' ; 5' B2>5< A2>A9' 3' 56 ' @ 5 '4%' 4 >' 12AA 3?' $%8& ' ' %' 6 ' 62@

D+' T ' 0,&0)' .*0&0$ ((/' $-*0' 3& ' ' %/' 3&0)(' 28 A9)' C D ;A)' ;> 3?' 6 8'4 5' B43'56 ' ?>4 3@)' 72> ' 8 5'%4>' : >' 1 2 ' 1 5 3?' + @?8 35' ; 57 3' 823' 23@' 823)' 54' B> >: ' : >9' 823' +3' > ' > ?65)' 23@' 54' B 3 6' 56 ' 7>43? @4 >' %+' 3& 4/+' 6 ' G 543)' 9' ' 5' A27% A' 54' ? : ' 5> ; 5 ' 54' 2>^I' 72 ' 2? 525 @)' 345' 3' * @ 2' 43A9)' ; 5' 3' 2AA' 56 ' 6 256 3' 14 35>)' 76 > ' 56 ' * 7 '7 > ' 55A @)' 23@' 72 '56 ' 4112 43' 4%'?> 25'@ 3 43 '2843?' 56 8 ' 6 ' G 543'56 ' B4 5A '@ 1@ @' 3' 56 ' 2%%>825 :)' B43' 56 '%4AA47 3?' B> 31 BA 'K 5625' 2 ' ?4: >38 35' 23@' ?4: >34 > ' 2> ' 2BB4 35 @' %4>' 56 ' B ;A 1<' ?44@)' 52C ' 4 ?65' 54' ; ' B2 @' ;9' 56 ' B 4BA)' %4>' @ %>29 3?' 56 ' 3 1 2>9' CB 3 ' 4%' ?4: >38 35)' 23@' %4>' 82 352 3 3?' 56 ' 82? 5>25 ' 3' 5625' 6434 >2;A ' 8233 >' 76 16' 56 >' 4%% 1 ' > G >)' 23 +' 76 16' ' 3 1 2>9' 54' B>41 > ' 56 8' > D B 15' %+' 5 .80&)3 +
)' W' T ' %%4$. 60 ' [> ; 5 I' 8 '54' @ 345 ' 2' 52C' A : @' 43' B > 43 ' 23@' 525 K' H' 1 548)I' 43' ?44@ ' 4>' 8 >1623@ ' %83$% +' 6 '2> '@ ;5 ' @ '54' 4 >' ?4: 84 5 .' ;9' 56 ' 148D 823@' 4%' #4@' 56 9' 2> '54' ; '+ 5A9' 23@' 16 >% AA9' B2 @' 2' 23@' 56 9' 123345' 7 564 5' 3' 23@' 3+ 51 ' ; ' @ 3 @' 4>' 7 566 A@' $%8&(+ L' 6 '0*' 0' 0/' 3&0)' 4$' *' *' '*0 ' 0* 3 %'F/ 6 ' B4 5A ' B> 31 BA ' 3' B > 4 > ' 56 > ' 74 A@' ; ' G 59' 23@' 84@ >25 43)' 14 >5 9'23@' 2%%2; A 59)' ; 3 ?3 59' 23@' 143@ 1 3 43K' 3' 3% > 4 >)' ' 31 > 59' 23@' %@ A 59)' > B 15' 23@' @ A ? 31 ' 3' B> 31)' + 51)' ? 35A 3)' 23@' 4A 15 @ ' %4>' 56 ' 7 A%2> ' 4%' 56 >' ;+ 15 'K' 3' ;+ 15)' A492A59)' ; 8 43)' 4; @ 31)' G 53)' B 21)' B25 31)' 23@' 16 >% A3 ' 3' B2> 35)' 5 3@ >3)' 12> % A3 ' 4%' 56 >' 16 A@> 3-' ?44@' @ 125 43)' 148 %4>52;A ' ; 5 31)' 23@' 5 >32A' 7 A%2> .' 3' 16 A@> 3)' @ 59)' 6434 >)' ?>25 5 @ ' 3' 2AA' 8 3)' B43' 2AA' 4112 43)' 2' > 2@ 3 ' 54' 2 5)' 54' > A :)' 54' 148 %4>5' 43 ' 23D 456 >' 23' 7 ' 6 AB' C1A2 8 3?' 7 56' 56 ' 1 A ;>25 @' 2 564>' 4%' 56 ' B > 5' 4%' "27)' [' 47' 2@ 8 >2;A ' 5A ' > A ? 43)' 76 16 ' ' 76 A ' 5' 8 ' 43A9' 54' 62: ' 3' : 7' 56 ' % A 1 59' 4%' 56 ' 456 >' A %) 143D 5 5 5 ' 56 ' 62BB 3 ' 4%' 56 'a-' -+' ! * 0 +
/ /' T > *' 8.'!*$' * ' (-' 'A % ' 4%' 3 2A 59' 23@' 3' ' 6 > ' 148 B2> @' 54' H' A B)I' 76 1A' '2' 525 '4%';A 3@3)' 3215 : 59)' 23@' @23? >2' 23@' 56 ' 62< 3?' 4%%' 4%' 16' @ 4A 5' 43: > 2543' ' > B> 35 @' 3@ >' 56 ' % ? > ' 4%' H' 272< 3?' 4 5' 4%' A B)I' 76 16' 4B 3' 8 3 ' 9)' >4 ' 56 8' 54' 215 43)' 23@' 2BB> U ' 56 8' 4%' 56 >' @23? >)' 23@' B 5 '56 8' B43' 56 >' ? 2>@' 2?2 3 5' 5' 0' 03*- +' A
*%' 3*6' & ' *$%' (' &*0' 0 % %' 3 0' 63 0' 6 ' 4 (& ' ,+B 625')' 7 ' @>27' 3 2> >' 54' 56 ' ?42A' 4%' ?A4>9' 23@' 2A:25 43)' 5623' 76 3' 7 ' % > 5' ; ?23' 54' ; A : ' 56 ' #4 B A' -+' ! (+ 6 ' @ 5 ' 4%' 2' 6> 523' 2> ' 6 > ' 3%4>1 @' ;9' 2' > B> 3525 43' 4%' 56 ' 64>53 ' 4%' 4 >' B> 35' A %)' 23@' 56 ' 3 2> >' 2BB>4216)' 76 16' 56 ' ;A)' 54' ; ' 4;52 3 @' 25' 4 >' 2:4 >' 143@' 148 3?)' : >9' ' @29' 82< ' 5472 -@ ' ' 3' 56 ' 3 ' 48 ' 4%' 56 ' ; 5' 35 >B> 5 > ' 3@ > 523@' 56 ' 74 @ ' 0' 03*- +
/F' 3 '0&)3 '& ' %' - 0 ' 3 ', /'& ' '3 0,G Q1R_' >' A % 4%' 3' 23@' >>4C5>' 7 2> ' 2729' 2B21 '.' 23@' 2' 525 ' 4%' ?A4>9' 23@' B > ' ' % 15 43' ' 2BB>4216 3?' 7 56' B = '5472>@ ' ' 64 ' 123@2A4 ' : 1 ' 8 5' 56 > %4> ' ; ' 2;23@43 @)' 76 16' 7 AA' 345' 3@ > ' 56 ' A ?65K' 23@' 564 ': >5 '21G > @' 23@' C >1 @)' 76 16' 829' ; ' 25' 431 ' 2' @ % 31 '2?2 3 5'5 8B525 43)' 23@' 23' 4>32 8 35'54' 4 >' B>4D % 43' 0' & $8*- +' \' ' 6 ' 8 23 3?' 23@' %4>1 ' 4%' 56+' C64>525 43')' 5A 25' A > 5 2 + 59' / ' "' F







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AJ' "2' 'B'((' 16)'6%2*')"'+K*%.'"#'%1 '"#')/"+*')/'10+'B/'</' /2'+)'/%)/'1")'B2"40/)' - '&*!')"'&%.*')/*' *1)'(*+'"-*6'*1)!' - 'B"26'%16'6**6!

' /2"40/'&'0/) '+'01+'%16'B"16*2+!' - ')/*'K"B*2'"#')/*' K'2')'"#' "6'$ +"')/%)' #2"&'3*24+%(*&!'%16'2"416'%-"4)'41)"' (('2'<42%!' '/%5*'#4(('K2*%</*6')/*'0"+K*(' "#' /2'+)

9 ' *%!'+"' /%5*' '+)2'5*6')"' K2*%</')/*'0"+K*(!'1")'B/*2*' /2'+)'B%+'1%&*6!'(*+)' 'P"4(6'-4'(6'4K"1'%1")/*2'&%1 +' #"416%Y)'"1'

7 +':9A:' 9A' 4)'%+' ')' '+'B2'))*1'P' F' "' B/"&'/* B%+'1")'+K".*1'"#!')/* '+/%((' +**'%16')/* ')/%)'/%5*'1")'/*%26'+/%((' 416*2+)%16

99' "2' B/'</'<%4+*'%(+"' '/%5*' -**1' (' &4</'/'16*2*6'#2"&'<"&'10')"' "4

9?' 4)'1"B'/%5'10'1"'&"2*'K(%<*'1')/*+*'K%2)+!'%16'/%5'10'%'02*%)'6*+'2*')/*+*' &%1 ' *%2+')"'<"&*'41)"' "4

9O\' /*1+"*5*2' ')%.*' &' $"421* ' '1)"' K%'1!' B'((' <"&*')"' "4' #"2' ')24+)')"

0/'6 / 4>)'4= 3' & +

%# 0,'-%* & 3' *' '3 ++

+**' "4'1'&' $"4#'&' 2'%16')"'-*';>4 ?65' "1'&' B% ')/')/*2B%2#2'-' "4!'#'#'2+)'A'-*' M "&*B/%)'#'((*6')'B')/' "42'.* - 0/+ 5 > 6"3/ ' : >' F

9:' 4)'1"B' '0"'41)"'3*24+%(*&')"'&'1Y '+)*2'41)"')/*'+%'1)+

' "2')' /%)/'K(*%+*6')/*&'"#' %<*Y 6"1'%'%16' </%'%')"'&%.*' %'<*2)%'1'<"1Y)2'-4)'"1'#"2')/*'K""2'+%'1)+'B/'</'%2*')%' 3*24+%(*&

')' /%)/'K(*%+*6')/*&'85*2'('$' %16')/*'2'6*-)"2+')/* '%2*' "2'7'#')/*' *1Y)'(*+' /%5*' -**1'&%6*'K%2)%.*2+'"#')/*'2' +K'2')4%(')/'10+!')/*'2'64) ''+'%(+"')"'&'1Y '+)*2'41)"')/*&''1'<%21%(')/'10+

9J' /*1')/*2*#"2*' /%5*'K*2#"2&*6')/'+!'%16'/%5*'+*%(*6')"')/*&')/'+'#24')!' B'((' <"&*'-' "4'1)"' K%'1

' 16' %&' +42*')/%)!'B/*1' <"&*' 41)"' "4!' '+/%((' <"&*'1')/*'#4(1*++'"#')/*' -(*++'10'"#')/*'0"+K*(' "#' /2'+)

? ' "B' '-*+**</' "4!'-2*)/2*1!'#"2')/*' "26'3*+4+' /2'+)+'+%.*!'%16'#"2')/*'("5*' "#')/*' K'2')!')/%)' *'+)2'5*')"0*)/*2'B')/' &*'1'/*$%'K2% *2+')"' "6'#"2'&* ?A' /%)/' '&%'-*'6*('5*2*6'#2"&')/*&')/%)'ÆA6"'1")'-*('*5*'1'346*%' %16')/%) &>)' ,&*4 ,& +

&9'>B> 35 3?'56'143:>5@'# 35A '2'2'84 5'211 B52;A' 4%%>3?'54'#4@)'56' B4 5A'2AA@ '54' C:' '>'5 .' 80&)3(+:

'T' "%*$)3' $'+ 3%& I' 6>4 ?6'56'2 5231'4%'* ' 6>5' %+' 3&3/+

TTT'&0'3* '3&0)'63&.3'-% &0'*'#45%R' '54'56' 11 ' 76 16'' 62:'62@' 3'143:>5 3?'56'# 35A ' %+' ((+

9' 6 3?'76 16'B >52 3'54'#4@.I'4%%>3?'B> 35@';9'56'8 D 3 5>25 43'4%'56'B> 5)'2'2BB 2>'%>48' ;' '/W)'23@':' .' 76 >'56' 28'B6>2 ' '4' @' 6'%?>'4%'56'B> 5A9'4%D % >3?)'2AA @ @'54' 3':>')' 5AA'1435 3 @' 6'# 35A '2>' B4< 3'4%' 3'56'A?65'4%'2' 21>%1)'4%% >@' ;9'56' B4 5A'54' #4@' ' ,6 %, +

\+T'63&.3' 3%& '3 3'0*'6%*$)3'3/' & 5'43A9'4% 564 '76 16'' 6256' %+' 3&4/+ 48' 16'74>@'2'56 ' 2>'3 1 2>9'54'148BA 5'56' 3 ' 6 ' B4 5A'74 A@'345' B 2<'4%'7625' 6> 5'62@'7>4 ?65'345';9'6 8)';' 5';9' '@ 1D BA)'%4>'82<3?'56'# 35A '4;@ 35.'564 ?6'6'8 ?65'62:' 1A2 8 @' 48'B>2 '2A 4'%>48'56 >' 11 ' & 5'6'74 A@' B 2<' 43A9'4%'7625' 6> 5'62@'7>4 ?65';9'6 8'B > 432AA9.'328 A9)' 5625 6'62@'B> 216 @'56'#4 B A'7 56'56'?> 25 5' 11 '%>48' * > 2A 8)23@'>4 3@'2;4 5'3'2AA'56'# 35A'14 35>)'2'%2>' 2'AA9>1 8' %+' 5 .80&)8+

'L %* ' %$ (' 0,'%*$0,' 4*$'$0*'((/%&.$ A' & D ? 33 3?'25'*> 2A 8)'23@'52<3?'2'1>1 5'56>4 ?6' 6 3 1)'23@' 9>2)'23@' >2;2)' 15'C:' M)'N/.'C C'F')'Q1)'54'56' 21 D @43 23)'76 16'+4 3' B43' AA9>1 8' %+' ! *0,+ 6'74>@' 8B4>5)'5625' 5' 2 A'62@'148'54'56'143%3 '4%' AA9>1 8)'23@' 5625' 5, '143%3 '7>'56' C5 >32A';4 3@2>9'4%'6'5>2: A' '143 @>'*> 2A 8'2'56'B4 35)'%>48'76 16'6'148 8 31 @'.' 23@' '6>'7 3?'56'B21'4:>'76 16'6'5>2: A'62@' C5 3@ @' AA9>1 8'72'56'B2>5'76 16'6'8 35 43'54'56'$4823)';12 ' 5'A29' 3'2'@>15 43'%>48'*> 2A 8'5472>@'$48)'23@'B4 35 @'4 5' 54'56'$4823'>2@>'56'BA21'3 2> 5'56 8)'54'76 16'6'5>2: A' %>48'*> 2A 8'62@';>4 ?65'6 8' 5'72'B43'6' 143@': 5' 54' 21 @43 2)'2A84 5'8 8 @ 25 A9';%4>'56'7>5 3?'4%'56' B 5A)' 5625'6'2BB>4216 @' AA9>1 8' %.3, .*0' (/+

'T'0*'63%' 3%&' 6'0 ,' 625')'B> 216 @';9' 456>';%4>'8 ' %+' 3&4/+ 45'76>' 6> 5 23 59'72'2AD > 2@9'BA235 @' %' ((+

FF'W*%'63&.3'.$ '(*'3''4 0' $.8'3&0,%,' 3D B4 5A'143 @>@'56'B> 216 3?'4%' 6> 5)'?63%'!'62@' 345' ; 3'328 @)'56'84 5'3 @% A'74>.'6'56>%4>'@ 1A3 @'?4 3?' 54'$48)'76>'72'2'16 >16 2A> 2@9'BA235 @' & 5'347)'H 62:D 3?'34'84>'BA21'3'5A 'B2>5)\':>'F)'5625')'62:3?'34' *%' 16 >16 '54'BA235'6>2;4 5)'6' ?3% '6'% *($&*0'*''&&0)' 56'$43223'16 >16' $%8& +

L'&'&% ''4'* 63' &((,'6&3'/*$%.* - 0/' 6 3 '62:'%4>' 48'5 8 ' 3+49 @'94 >'148B239)'23@' 4' 3' 48' 8 2 >'25 % @'8 9'A43?3?'43'5625'2114 35' %+' ((+ F0' *' &0& %'$0*'3' &0 +' 4'@ 5>;5'54'56'B44>' 6>5 23'56>)'56'14AA 15 43'5625'62';3'82@'%4>'56 8' >' ! *0,+

+T'3 '*'5 .,*0&'0,'.3&=' 3 '&'3'4% 3% 0' 3'564 'B>4:31)'B2>5 1 A2>A9'25' 6 A BB)' 3 (*0&. ' % ' 4> 356)'23@'3' :>9'456>'.&/'*'3 '-%*'&0. '63%'16 >16 ' 7 >'BA235 @';9'56' B4 5A' >'5 .80&)8+

'3 3'-(,'3 '' %&(/'2'X.+' 3$';4 35% A'2>'56 9' 54'56 8)'23@' 3@ @'7 '56 9'8 29K %4>'5'72'%>48'*> 2A 8' 5625'56 ' # 35A '%>5'>1 :@'56'#4 B A.'23@)'%4>' 16'2' B>5 2A'23@' 5>32A';A 3?)'56 9'829'7 AA' 3'>5 >3' BBA9' 56 8'7 56'56'3 1 2>9'56 3?'4%'56'B> 35'A% ' /(+

FL'T'3 '' (,'*'3 '5 '%$& BN' 2:'@ A:>@'54'56 8' 2% A9'56'%> 5'4%'56'A;>2A 59'4%'56'# 35A ' %+'!*0,+

' T'&0'3'$(0 '*'3'4(&0)'*'3')* -('* ' 3%& +N' >)' 7 56'2'% AA'B47 >'4%' 8B2>5 3?'54'94 '56'?%5'4%'56' B>5'3' 56'84 5'BA 35% A' 8233 >)' Q '56'345'43'162B' '//' >)' 3&4/'23@' ((+

+T'*%'3'(*'' *'3' -&%& BN' B43'5625'4;A?25 43';1 6>5 23'A4:)'76 16' 6> 5'>G >)'23@' B>5'74><'3' 94 >'6 2>5' %+'! *0,+

'3'/'%&'*')0 3%'6&3' '&0'/*$%'-% / % AN' 625'94 7 AA'7 56'?> 25' 2>3 53 '23@'%>:319'+4 3' 94 >'B>29>'54' 8 3 ' %+'! *0,+

/' T'%* '3 '3 ',*'0*'4(& ''&0' $,')P' 6'3;A :D 3?'* 7'25'*> 2A 8'62@'?45'345 1'4%'56' B4 5A-' 11 '3' 143:>5 3?'56'# 35)'54'7648'6'B> 216 @' 2A:25 43'7 564 5' >G >3?'56 8'54'4;9'56'A27'4%' 4 ' 3@';3?'%2A A9'3D %4>8 @'5625'9'6'52 ?65'2AA'56'* 7'76 16'7 >'2843?'56'# 3D 5A'54'%4> 2<' 4)'Q1 I' 15'CC'F/)'56 9'7 >'C1 @ 3?A9

B +*25'<* B / '</ 3 ' #"2 3*24+%(* & % - *% %<<*K)*6 " #) / * +%'1)+ $?9 /%) & % <" & * 41)" "4 B ') /$" -) / * B'((" # "6! %16 & % B') / "4 - * 2*#2*+ / *6 ?? "B) / * "6 " # K*%<* 4 B') / "4 %((& *1

(#! 9 F/ B 41)" "4 / * - * "42 +'+Y)*2! B / '</ '+ %' +*25%1) "#) / * </42</ B / '</ '+ %) *1</2*% 9 /%) * 2*<*'5* / *2 '1) / * "267%+ -*<" & *) /'8+%'1) $ %16) /%) * %++') / *2 '1 B / %)+"*5*2 -4+'1*++ / * / %) / 1**6 "# "4 #"2 + / * / %) / - **1 %' +4<<"42*2 "# &%1 P%16 "# & +*(#%(+" ^ ! W ? ! 2**) 2'+<'((% %16 V4'(% & / *(KY B / '</ %2*' '1) / * "26 8 #2*16+ *2+ '1 /2'+) 3*+4+ 8 A9 %(4)* 2 K / *1% %16 2 K / "+%! B / " C / " / %5*# "2 & ('#* (%'6 6 "B1) / *'2 (%- "42 '1) / * "26 %(4)*) / * - *("5*6 "B1 1*<. + 41)" B / "& 1") "1(' 0'5* *2+'+! B / '</ (%- "42*6 & 4</ '1') / * "26

) / %1 . +! - 4) %(+" %(( ) / * </42</ * + "#P) / * *1)'(*+ *" ; ' '. * B '+*) %) / * </42</) / %) '+P '1) / *'2 / "4+* %(4)* & B*((-*("5*6 K* 1*)4+! B / " '+) / * #'2+)#24')+ "# </%'% 41)" /2'+) UE 2**); %2 ! B / " -*+)"B*6 &4</ (%Y -"42 "1 4+ ; I %(4)* 162"'''<4+ %16 341'%! & . '1+ &*'"! %16)" #*((" BK2'+-2'*2+! ;B / " %2* "# 1")* %& "10) / * %K"+)(*+! B / " %(+" B*2*' '1 /2'+) -*#"2* &* U ! X J 2**) &K('%+ & -*("5*6 '1) / * "26 ; = L %(4)* 2-%1*! "42 / *(K*2 '1 /2'+)! %16)%</ + & -*("5*6 ; A %(4)* K*((*+# %KK2"5*6 '1 /2'+) %(4)*) / * & B / '</ %2* "# 2'+)"-4(4+; ((3* & 3*5 %A A ; ; ; AA %(4)* *#"6'" /) " . '1+&%1 2**)) / * &) / %) -* "#) / b* & 3*(,'"# %2<'++4+! "2' *2+ '1 /2'+) 3*+4+ 8 A9 %(4)* 2 K / *1% %16 2 K / "+%! B / " C / " / %5*# "2 & ('#* (%'6 6 "B1) / *'2 (%- "42 '1) / * "26 *2+'+! B / '</ (%- "42*6 & 4</ '1') / * "26

3>2? @ 2?2 3 5 6 8 6 B4 5A) ; 3? 7 AA 2BB> U @ 4% 56) 1431 : @ 6 8 A%54 ; 3 @23? > %>48 6 > 82A1 F) &)3& ! 7 .. - , 3 &0 625) @ A9 23@ < 3@A9 . 2A564 ?6 56 1435> ; 543 148 %>48 # 35A 16 >16) 2?2 3 5 7648 56 9 2> 544 2B5 54 ; 3> 2 432;A9 B> + @1 @ (

62B , 6 B4 5A > 1488 3@ 6 ;) 56 ; 2> > 4% 56 B 5A .23@ 4%% > 2A 525 43 54 23@ %>48 56 6> 523 4% 6 21G 2 35231 3 56 8 @ 5 4% 56 8 6 > 3 7 6 B256 51< @ > 4% 56 > 8 5 2A 12> 54 2:4 @ @ : 43) 23@ 56 B > 43 764 %48 35 23@ B> 2@ 56 8 > B 25 6 2 >231 54 56 # 35A 6> 523) 5625 56 9 2> 56 5> 16 >16 4% 6> 5 7 56D 4 5 4; >: 3? 56 * 7+ 6 A27 3@ 1431A @ 7 56 B>2 54 #4@ %4> 3 ; > 2A 8 >1 54 823< 3@ (" , > / T # 3 56 56 %2 56 F / T # 3 56 G 2A 59 4% = @ 2143) 2 48 56 3<2 2 456 >) 764 B 35 6 > 5 8 3 64 B 52;A9 35 >52 3 3? B44> 6> 523) 23@ 764 62@ ; 3 2 114 > > 23@ BB4>5 > %% 56 B4 5A 6 8 A% 5) 6 @ 2143 7 > 748 3) 8BA49 @ 3 56 B> 8 5 16 >16) 4> ? 32AA9 7 @47) 56 7 : 4% 43 6 ;23@) 56 345 43 / 8 : J . 2A564 ?6 3 B>41 4% 5 8 5 2BB 2> 56255 : >? 3 2A 4 7 > 82@ @ 2143 6 > ; 3 72 54 ;2BD 5 U 748 3) 54 5 216 56 % 82A 125 16 8 3) 54 : 5 23@ 255 3@ B43 56 1<) 54 2@8 3 5 > 54 8 2>59>) 23@ 54 B >%4> 8 456 > 3 % 34 > >: 1 4% 56 16 >16) 3 T é 6 2 5 >3 2B4>5 4% 4> 356) 5 25 @ 43 56 2>43 1< ? AB6) 2;4 5 : 359% >A43?) 3 2> 3 3 8 A) %>48 56 1 59 F)) P)]] G 2 35) 3 2 64A9 23@ 6> 523 8233 >) 2 ; 148 56 94 > B>4% 43 5 ; 148 56 6> 523 F / T " 6 4> ? 32A 74>@ 8 54 ?3 9 64 5) 345 3 2 148 843 33) %4> 56 > 7 > 34 16 56 3? 2 4 > 33 3 5625 14 35>9. ; 543) 764 ;4 72 56 BA21 4% A4@? 3?23@ 35 >5 38 35 4% 5A 4 .764 7 > > 1 : @ ; 9 56 16 >16 2 56 > ? 5 .23@ 56 6 544< 12> 4% G \ #> 5F >) 2A 5 %4> 8 4% : >9 %> G 35 411 >> 31 3 , "

56 3@ 4% 5 2 A- B 5A) %4> CB> 3? ?44@ 7 6 %4> 23 2; 35 B > 43 .3"$ 0 % 6 B4 5A : 9 2%% 15 4325 3 56 2A 525 43 . ? : 3? 54 2A84 5 : >9 ; 3 48 ?32A B 56 5) 5625 6 8 ?65 ;456 > 148 D 8 3@ 56 8 %4> 56 B 4B4 56 8 54 456 > %4> 8 52D 543) 23@ 56 84> 3@ 2> 56 2%% 15 43 54 6 8) 23@ 6 7 6 ?>25 5 @ 54 56 8) 23\@ 56 6434 >2;A 5 8 6 35 >52 3 @ %4> 56 8. -W ((+ /3 (- % &0 3%& $ .R 6 B4 5A 3 6 2A 52D 543 56 @ 1> ; > 1 AA2 23@ G A2) ; 12 ;456 25 4> 356 23@ B6 56 9 62@ ; 3 >9 215 3 B> 2@ 3? 56 #4 B A F 5 .80&)3 N 3*3 * % / (& (&, , *'0 3 &% 0 .8 .R 6 2@ 3 2AA 43 54 56 1 548 4% BA21 3? 4>5 ;A41< 56 3 1< 4% 1> 8 32A) 764 6 2@ 2> 54 ; 1 5 4%%) 6 CB> 43 B>4D : >; 2A) 23@ @ 345 56 3@ >?4 3? 4% 56 ?> 25 5 B > A 5 564 ?65 56 B4 5A 2AA @ @ 54 48 ?> 25 @23? >) 54 76 16 = G A2 23@ > 1 AA2 CB4 @ 56 8 A:) 3 @ % 3@ 3? 6 35 %>48 56 * 7 3 56 5 8 A5 76 16 56 9 >2 @ 25 4> 356 @2> 3? 56 B>4143 A 6 B 4% #2AA 1) 15 C : /F %+ 5 .80&)3 + 4$ (* ((3 .3$%.3 3 3 0& +A 4> 16 = > ?> 25 < 3@3 54 8 56 B4 5A 4% 56 # 35A > ((A L 3 3 %.3 3 & &0 3 &% 4 AA 56 > 6> 523 %28 A9) 56 345 43 / 4> C : %% %+ 3& 4/ A = T T - 0 $ &L 3 &% %$& ; .3 & * 3%& 3 4% 56 % > 5 6> 523 143 : >5 3 162 2 5 (6 B4 5A 12AA 56 64 4% 5 B6232 B 56 % > 5%> 5 * B62 2)\ / 4> C : / B 3 555 8 29 62 : ; 3 43 4% 5625 %28 A9 %+ *, , %&,) H C < T /&0 0 0, / ((*6 -%& *0 % F . 5 2 A 59A 2AA 56 * 7 H < 3 8 3)162B C \ & %45 6 7 35 54 $48) 6 72 H 3 B> 43 %> G 35)I F 4> C F .23@ 4 8 ?65 62: 62@ 8239 H % AA4 :B> 43 > I %+ 3& 4/K 63* % 0* *0) 3 -* (63* (* 6 % &0A 8%& & 4 &*% 7+1 64 2> 4% B 1 2A 345 23@ 3 6 ?6 2114 35 7 56 2AA 56 B4 5A .23@ 764 7 > %284 @ 1BA ; %4> 8 9 143 : >5 43 -+ ! ((/ T --%* ,&0 3%& + 4 64 6256 6 7 @ 6+B ? A% 2 %2 56% A 31 > 6> 523 %+ ! *0, \ BB>4 : @ - ; 9 56 31 > 59 4% 6 %2 56) 2 @ 56 35 ?> 59 4% 6 A % %+ 8& 4/ [/

W $(' 0, 3' 6&3 ' -% & ' *' *,+

"6!' &%6*' .1"B1')"' %((' 1%)'"1P' #"2') '*' =#))*'(' 7)"';)-*' -&P/+' #2"&' 6"#'/ '
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' "' "6' "1(' B'+*!' 0("2 ')/2"40/')/*' </42</' %)' *1</2*%
8 3*+4+ /2'+)' #"2' *5*2' &*1' !

12 ' 5' 72' B' < B5' 1> 5' 31' 56' 74>A@' ; ?23)I' #4@' 345' 62: 3?' 4B 3 @' 4>' @ 1A2> @' '?%21 47' B >B4 '; %4>' 56' 148D 3?' 4%' 6> 5' 56' > B 15' 54' 56 '5 8 '4%' 1> 19' 23@' A 31' 5' 12AA @' 2' 8 9 5 >9K' ; 5)' B43' 56' > : A25 43' 4%' 5' ;9 6> 5' *)' 5' 'A44< @' B43' 34' 12 ? >' 2' 2' 8 9 5 >9)' ; 5' 2' 56' 8 23 D % 525 43' 4%' #4@-' 7 AA' 23@' ?44@3 '54' 8 3' 625' 5 7 2' 431' 6 @@ 3' 3' 56' 1> 5' 14 3 A' 4%' >4: @ 31)' ; 5' 347' ;9' 56' > : A25 43' 4%' 6> 5' * '82@' <3473' 354' 2AA' 8 3)' 8 29' 2@8 D 3 5 >' 54' '?> 25'+49)' 23@' ; '2' ;+ 15' 4%' B>2 '23@' ?A4>9' 54' #4@K' 32 8 16' 2' 4 >' 9 '62: ' 3)' 23@' 4 >' 2>' 62: '6 2>@)' 564 '56 3?)' 76 @' 8239' >?65 4 '8 3' 23@' >4B6 5' 62: '9' @ D > @' 54')' 23@' 62: ' 345' 3' 56 8)' 23@' 54' 6 2>)' 23@' 62: ' 345' 6 2>@' 56 8)I' 255' C '/W' 5 3 %3.8+

0\' *%', '*4 ,& 5' 625' 56 9' 8 ?65' ; A : '56 #4 B A' F ! ,+)'
FW' + *,' *0(/' 00& F= 4 Q' 4' 56' 43Ag=7 '#4@-' 6)' 2' 56' '256 >' 345)' 123345' C1A @' 56' : 3' 325 >' 4%' * ' 6> 5)' 764' '56' 7 @48' 4%' 56' '256 >)' %>48' 56' 5 5A)' 239' 84>' 5623' 564' 74>@)' H' 764' 43A9' 6256' 8 84>52A' >' 3&4/+ C1A @' 6> 5' %>48' ; 3?' 8 84>52A' >' 3&4/+ 6 ' 3@ @a' 56' B 5A' 4%' 5' 2 A' 56' B4 @' 54' 56' $4823 K' 2' 7>5 3?)' 76 16)' %4>' ;A 8 59' 23@' 5> 56' 4%' 35 8 35)' %4>' ;> : 59' 23@' 5> 3?56' 4%' CB> 43)' ; 5' 2;4: '2AA' %4>' 56' 3 B 2<2;A' 8D B4>5231' 4%' 56' @ 14: > '76 16' 5' 52 3)' 523@' 3> :2AA @' ;9' 239' 8 > A9' 6 823' 148B4 543' %+' 5 .80&)3+

A5' %4AA47 3?' 62B5 > '%>48' 6' B 5A' 54' 56' $4823' 2>' 2BB4 35 @' %4>' >4B >' " 43)' 4>' 2' 4>543' 4%' 1> B5 > '%4>' B 5A)' 43 3@29' 23@' 4A9@29 .' '

	>1 81 43)'	4>%A6?
: >' LT /N)	554)' 0'	B 5A
	2 5 > 29)	4>3 3?
: >' T//)	M56' 3@29 2%5 >' > 3 59)	B 5A
T' /J=F)	W56' 3@29 2%5 >' > 3 59)	554
T' T	L56' 554)'	554)
T' /LT F)	N56' 554)'	554
T' JT F/)	5' 3@> 7-' 29)	554
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' B2>5' 4%' : >' T F/)	>@' 554)' ' ' '')	554
)' ' : > /T W)	N56' 554)' 23@' 2B 5 -' 43 B >219)'	554
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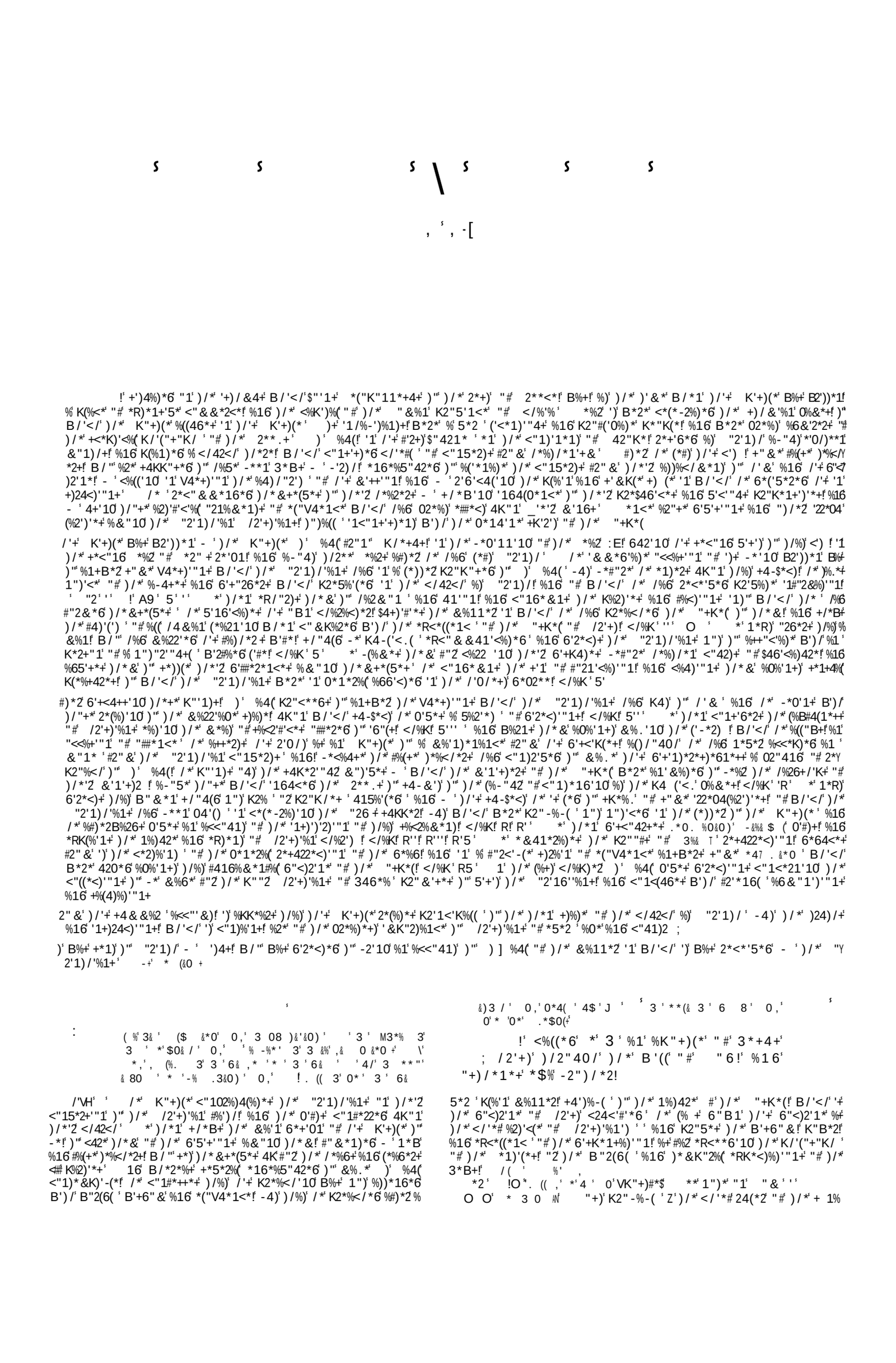

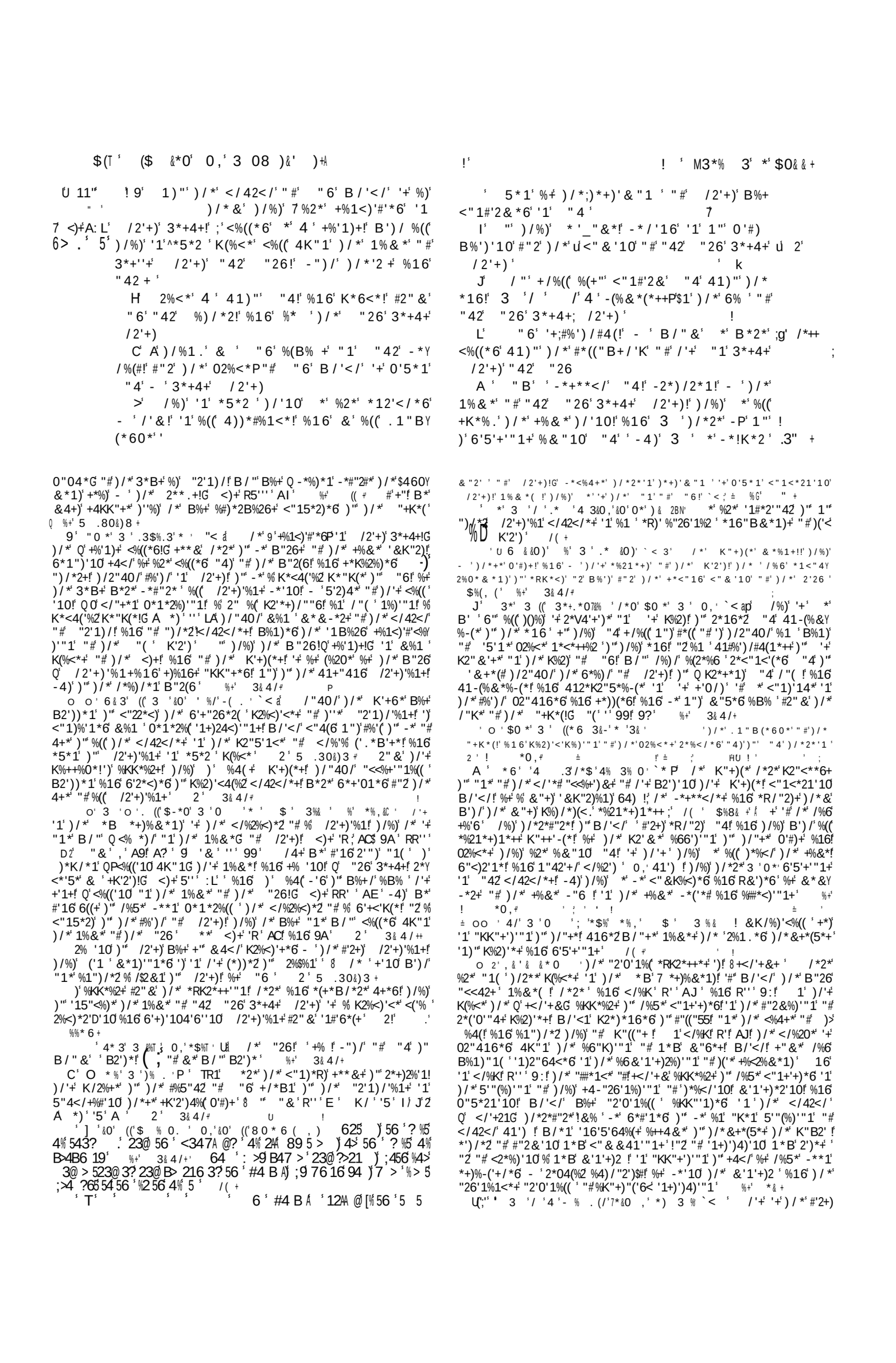

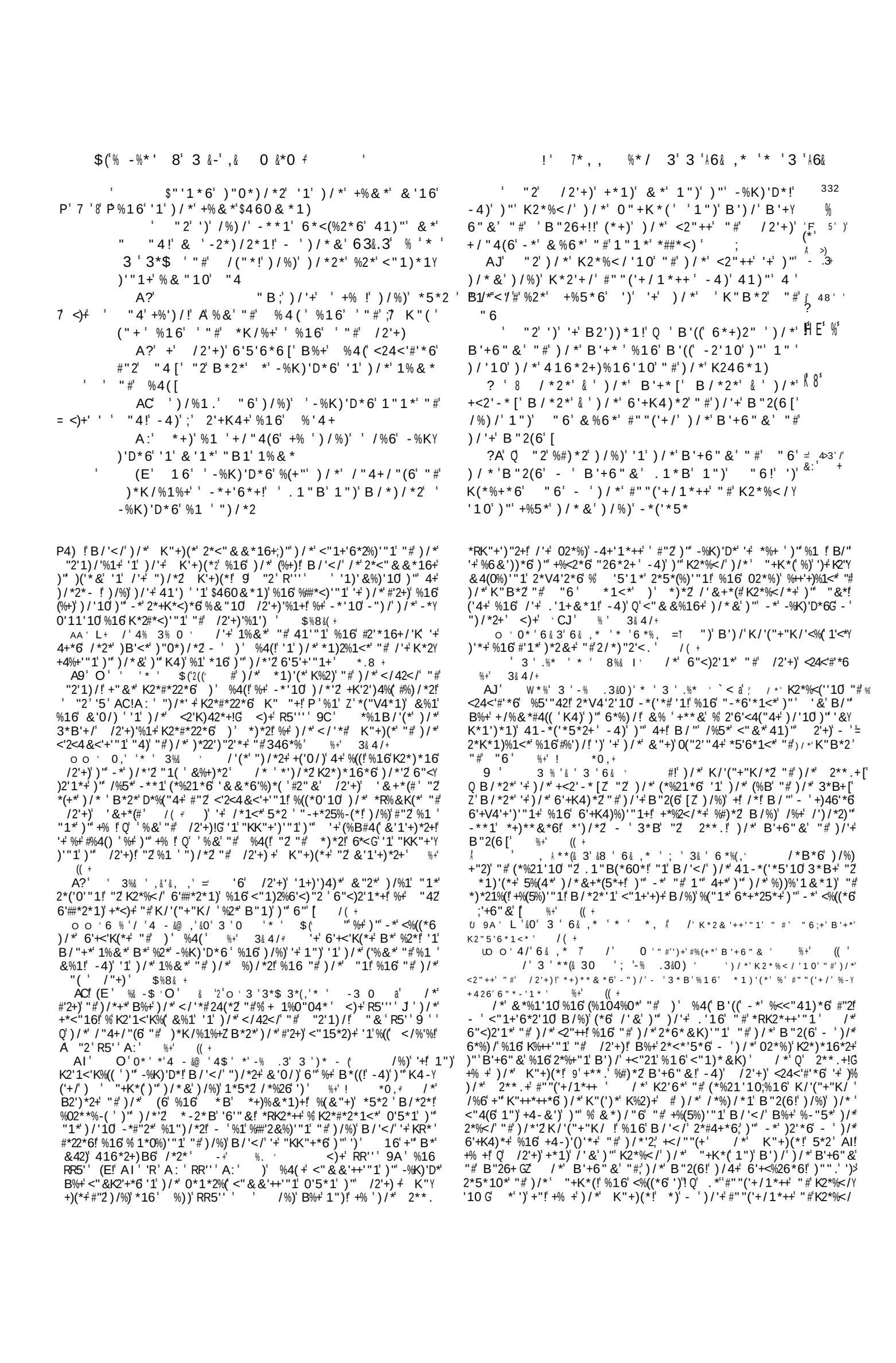

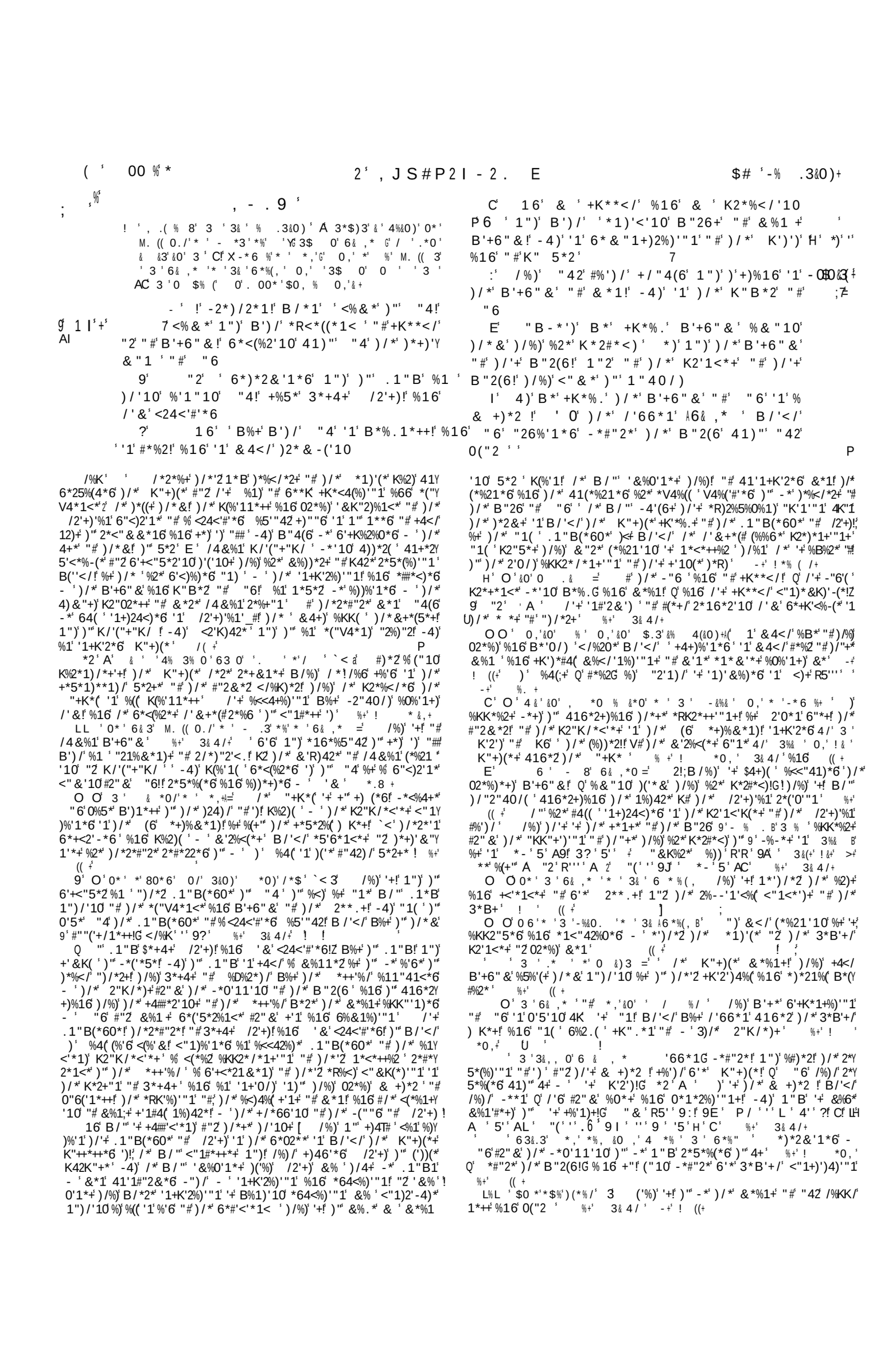

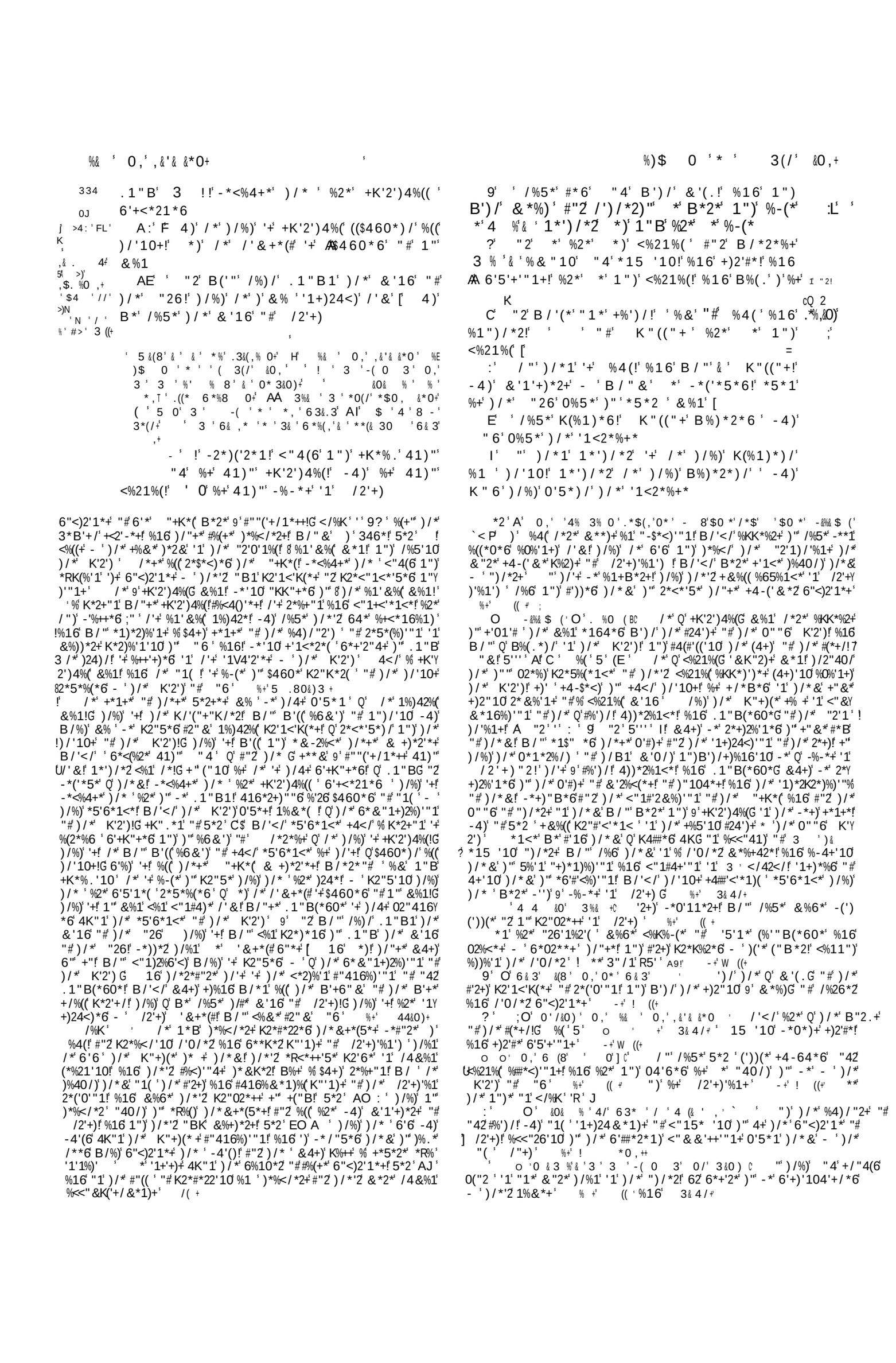

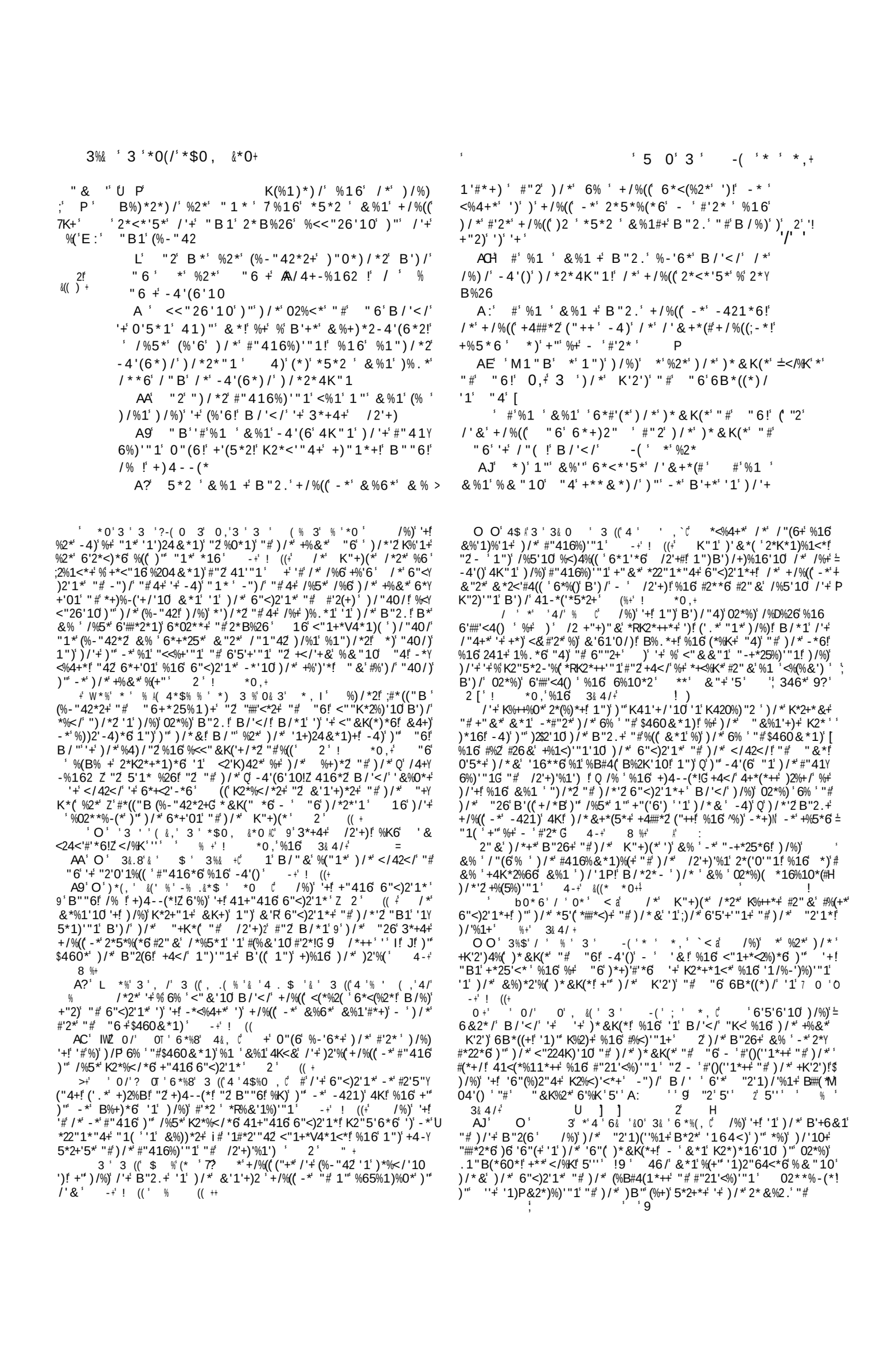

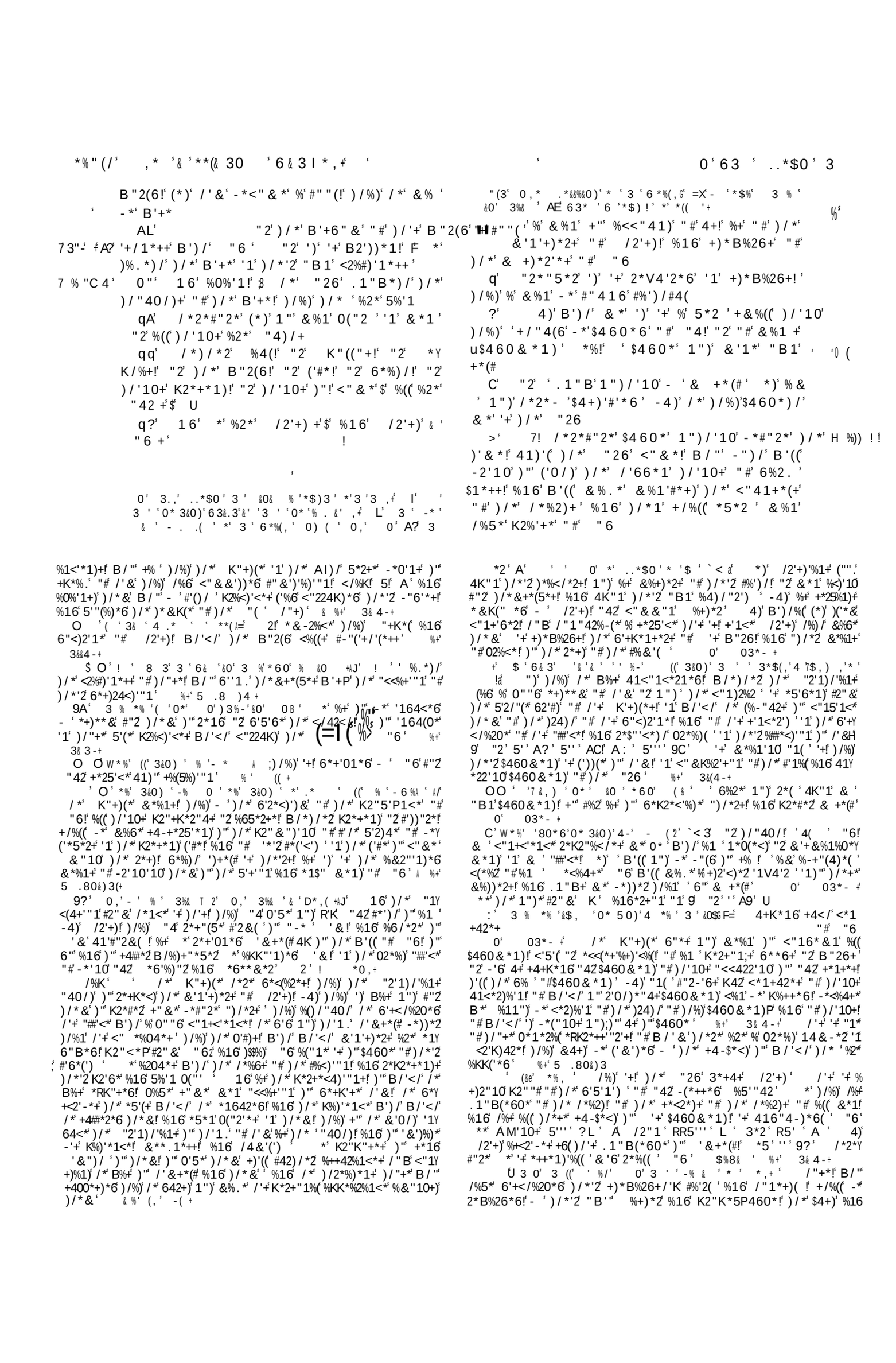

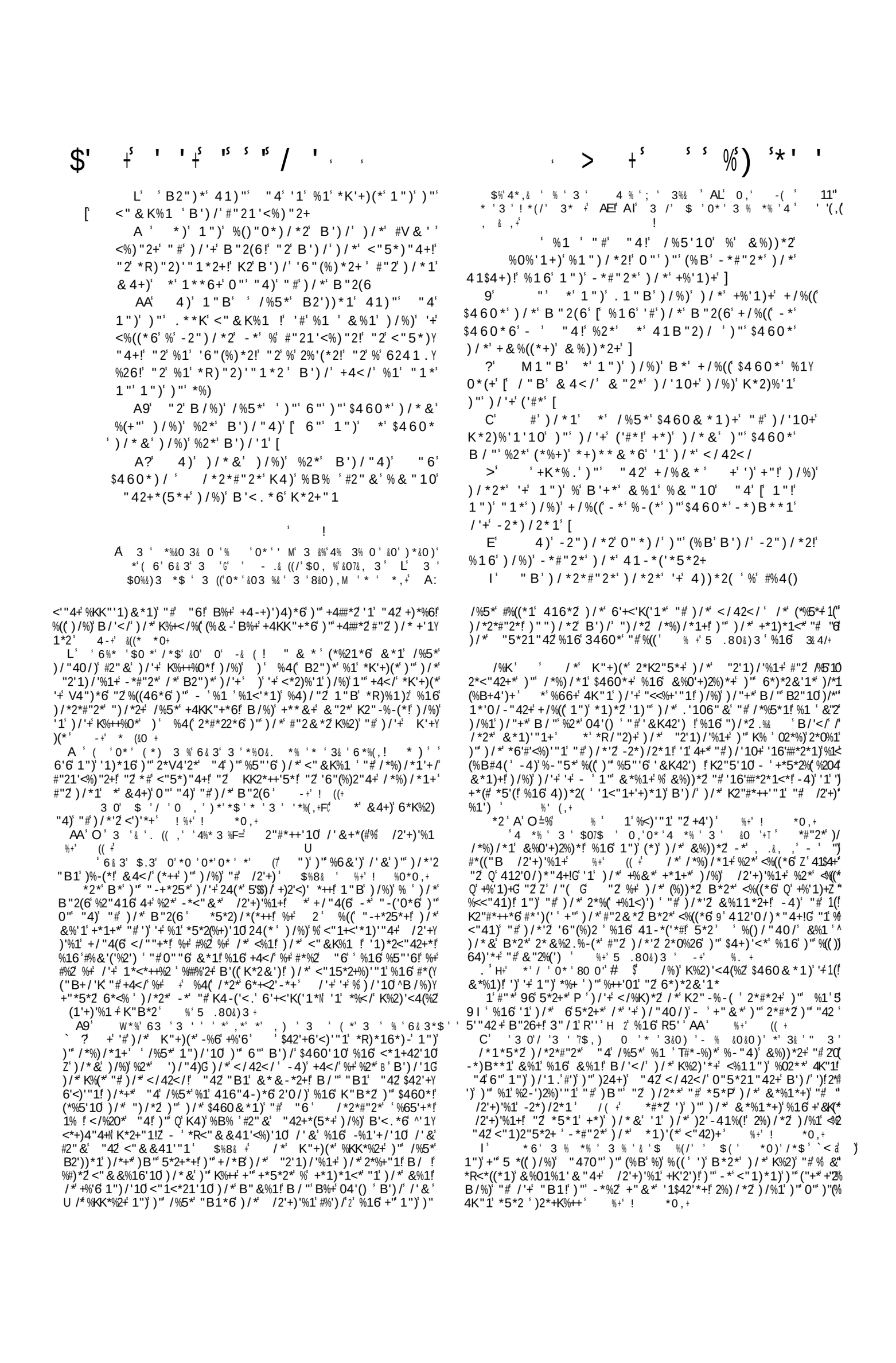

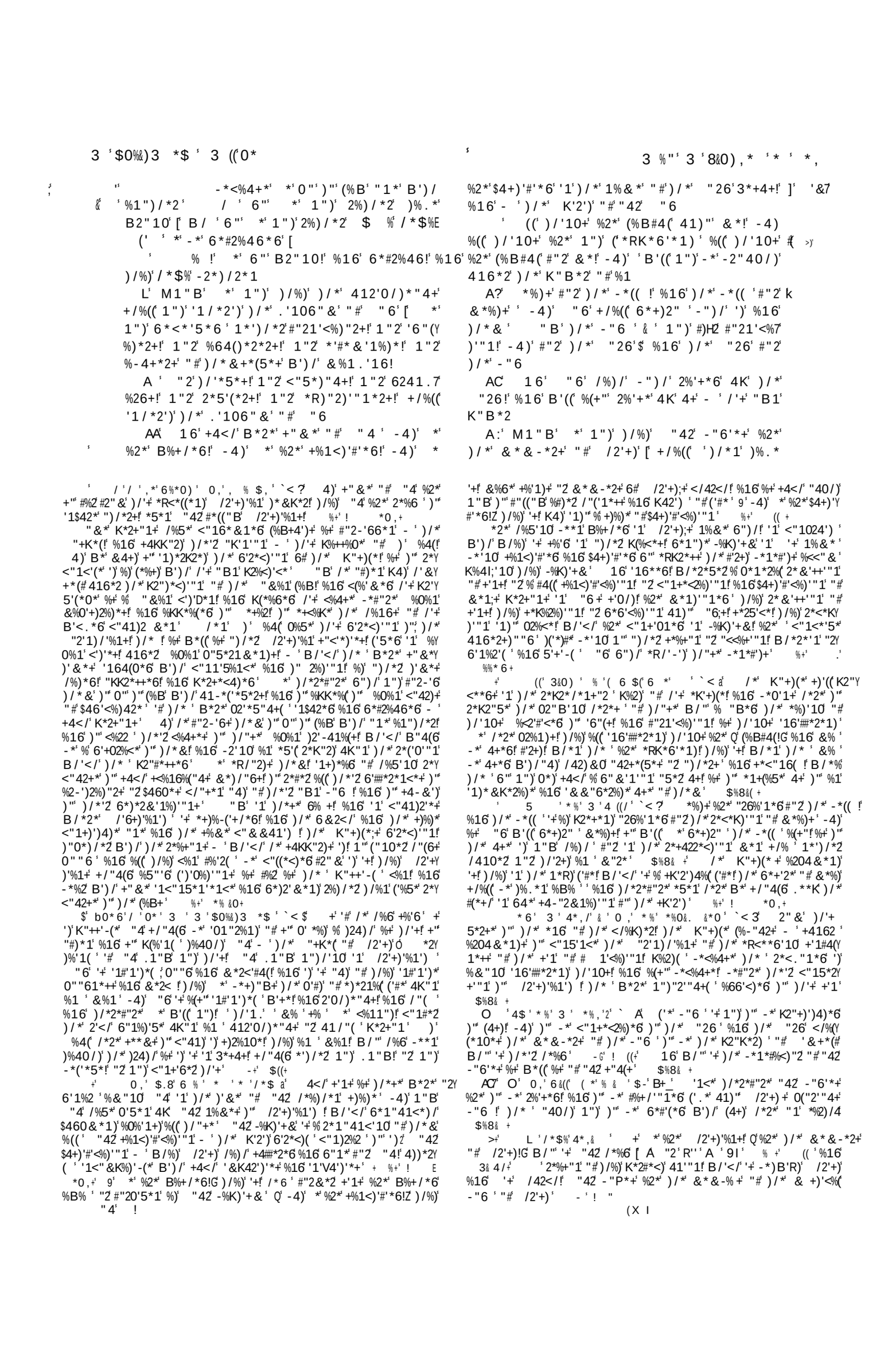

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0. &/

9I' 2)')/"4' -"416' 41)"' %' B'#*[' +**.' 1")')"' -*'("'+*6' 2)')/"4'("'+*6'#2"&' %' B'#*'[' +**.' 1")' %' B'#*
9J' 4)' %16' '#')/"4' &%22 !')/"4' /%+)' 1")' +'11*6' %16' '#' %' 5'20'1' &%22 !' +/*' /%)/' 1")' +'11*6' ; *5*2)/*(*++' +4</' +/%((' /%5* U)2"4-(*'1')/*'#(*+/' -4)' +K%2*' "4 ! 4)')/'+' +% !-2*)/2*1!')/*')'&*' &' +/"2)' ')' 2*&%'1*)/!')/%)' -")/')/*')/%)' /%5*' B'5*+' -*' %+')/"40/')/*' /%6'1"1* 16')/*')/%)' B**K!' %+')/"40/')/*' B*K)'1")' %16')/*')/%)' 2*$"'<*!' %+')/"40/')/*' 2*$"'<*6' 1")!' %16')/*')/%)' -4 !' %+')/"40/')/*' K"++*++*6'1")

?A' 16')/*')/%)' 4+*')/'+' B"2(6!' %+' 1")' %-4+'10' & G' #"2')/*' #%+/'"1' "#')/'+' B"2(6' !K%++*)/' %B%
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HYR /*2*' '+' 6'##*2*1<*' (*' -*)B**1' ' B'#*' %16' %' 5'20'1' /*' 41&%22'*6' B"&%2' <%2*)/'#"2')/*')/'10+"#')/*' "26!')/%)' +/*' &%' -*' /"(' -")/' '1' -"6' %16' '1' +K'2')' -4)' +/*')/%)' '+' &%22'*6' <%2*)/'#"2')/*')/'10+"#')/*' B"2(6!' /"B'+/*' &%' K(*%+*' 3 %/4+-%16
?:' 16')/'+' '+K*%.'#"2' "42' "B1' K2"#')' 1")')/%)' ' &% ;<%+)' %' +1%2*' 4K"1' "4!'-4)' #"2')/%)' B/'</' '+' <"&*(!' %16')/%)' *' &%' %))*16' 4K"1')/*' "26' B')/"4)' 6'+)2%<)''1!
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(%5*+' B*2*' -"40/)' %16' +"(6' '1')/*' &%2.*)!' %+' <%))(*' %2*2' %16' +"' -' ;)/*' K2'<*' K%'6!')/*2*' B%+' % K2"K*2) ' %<V4'2*6' '1')/*&' /'+!')/*2*#"2*!' '+' % 2*%+"1' #"2' B/%)' /*' %65'+*6')/%)' /*' +/*4(6 1")' -*' +(%5*+' '" &*1!' -*<%4+*' /2'+)' /%6' K%'6' % K2'<*' #"2')/&! %16')/*' -*'(*10*6')" '&' /*' +(%5*2' /*' +K*%.+' "#'+' <'5'(+(%5*2 ! B/</' /*' &%.*+' 4+*' "# /*2*')" <"15'1<*')/*' "2'1Y)/'%1+!')/%)')/*' <'5'( )'*+' "# &%22'%0*' B*2*' 1")' 6'++"(5*6' - ' % &%1+' -*<"&'10' % /2'+)')'"!'+1<*' +(%5*2 ' ')+*(# B%+' 1")' %16' '1 0*1*2%(!'1')/*1*R)' 5*2+*' /*')*((+')/*&!')/%)' 1")/'10' '1' %1 ' &%1+ *'5'(*+)%)*!' "2' 2'0/)+!' '+' %()*2*6' - ' /'+' -*<"&'10' % /2'+)'%1' *.8 +

9:' *6' .*0. %O&0)' '&%)&0 ' /%)' '+!' +4</' "#*')/*2 *R %+ $#*% *1*5*2 *)' -**1' &%22'*6' %+' ((+
' %+' *0' 3 '78 3' *4& && ,' $%*B d +' '%&' %1' K"+)(*' "# ; /2'+)!' %16' "1*')/%)' /%)/' "-)%'1*6')/'+' &*2<' "#')/*' "26')"' -*' #%')/#4(' '1')/*' K(%<*' B/*2*'1' *' +*)' &*' ^'#*' ! ((GR' %16' "1' B/"+*' $460&*1)' "4' &%' 2*(' '1')/*' &%))*2' %+' ((+ /'+!' +%')/')/*' K"+)(*!' '+' %(()/%)' '+' 2*V4'2*6' "#% &'1'+)*2 "# "6!' %16' +)*B%26' "# '+' & +)*2'*+!')/%)' /*' -*' #"416' #%')/#4(' '1' %6&'1'+)*2'10')/*' 02%<*' "# /'+' %K"+)(*+/'K!' </%K' '5' A' 9' 16')/'+#'6*(') ' B%+' +)'((%))*16*6' B')/')/*' K"B*2' "# /2'+)' %++'+)'10')/*' K"+)(*+!' %+' %KK*%2+' #'7"&')/*+*' B"26+!' Q' ')/%1.' /2'+)' 3*+4+' "42' "26!' B/'" /%)/' *1%-(*)(' &*!' #"2')/%)' *' <"41)*6' &*' #%')/#4(!' K4))'10' &*' 1)'")/*' &'1'+)2 !G A '&' ' ' A9' '")/%)')/'+' K/2%+*' 6")/'1")' &K(' !%+' +"&*' &%0'1*!')/%)')/*' K"+)(*' /%6'1(' %1' '2' 6'1%2' %++'+)%1<*' '1')/'+' %65'<*!' +4</' %+' %1 ' K'"4+' +.'(#4(' K%+)"2 &%' +)'((*RK*<)' %+' 5 3& +
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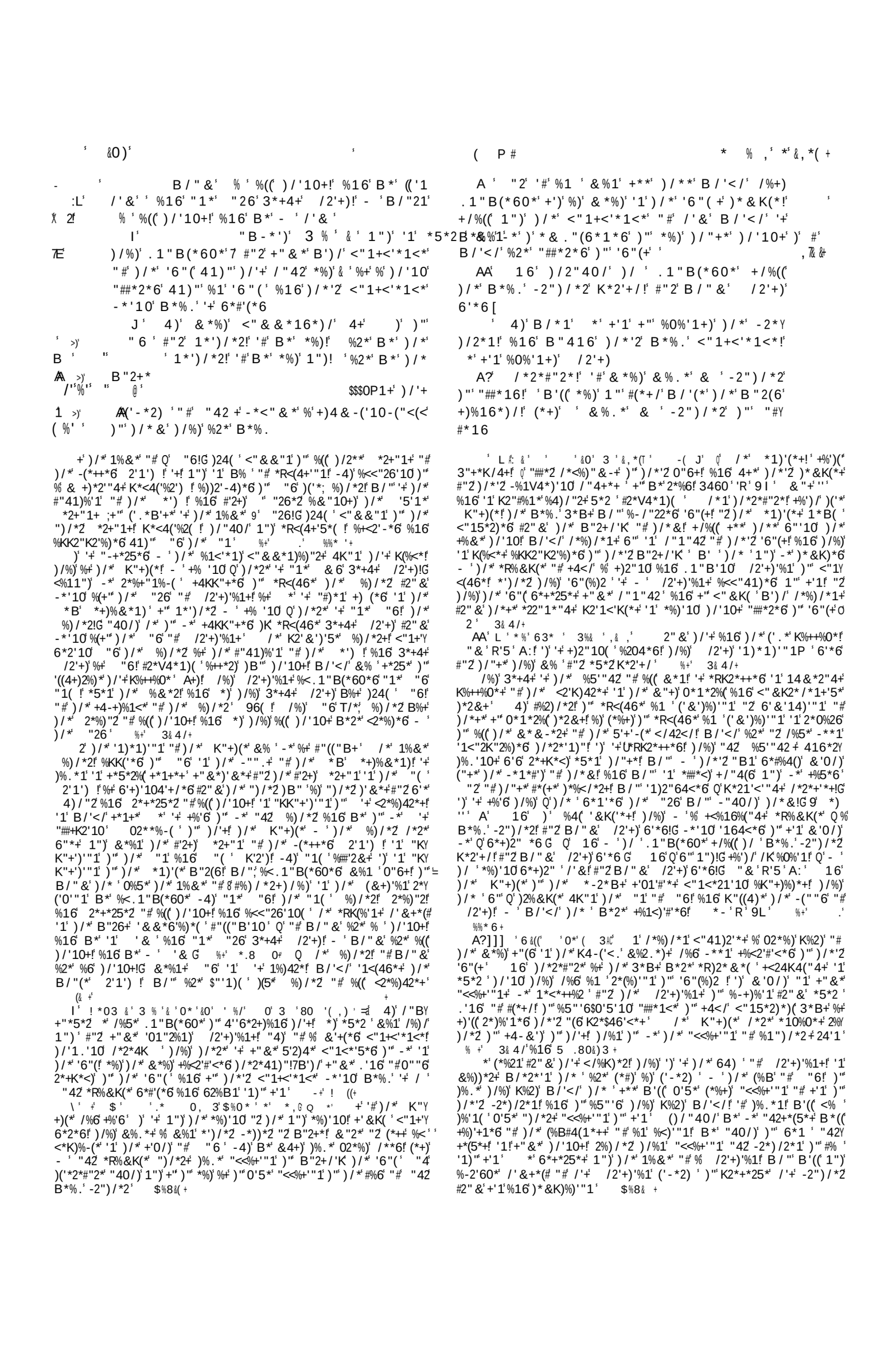
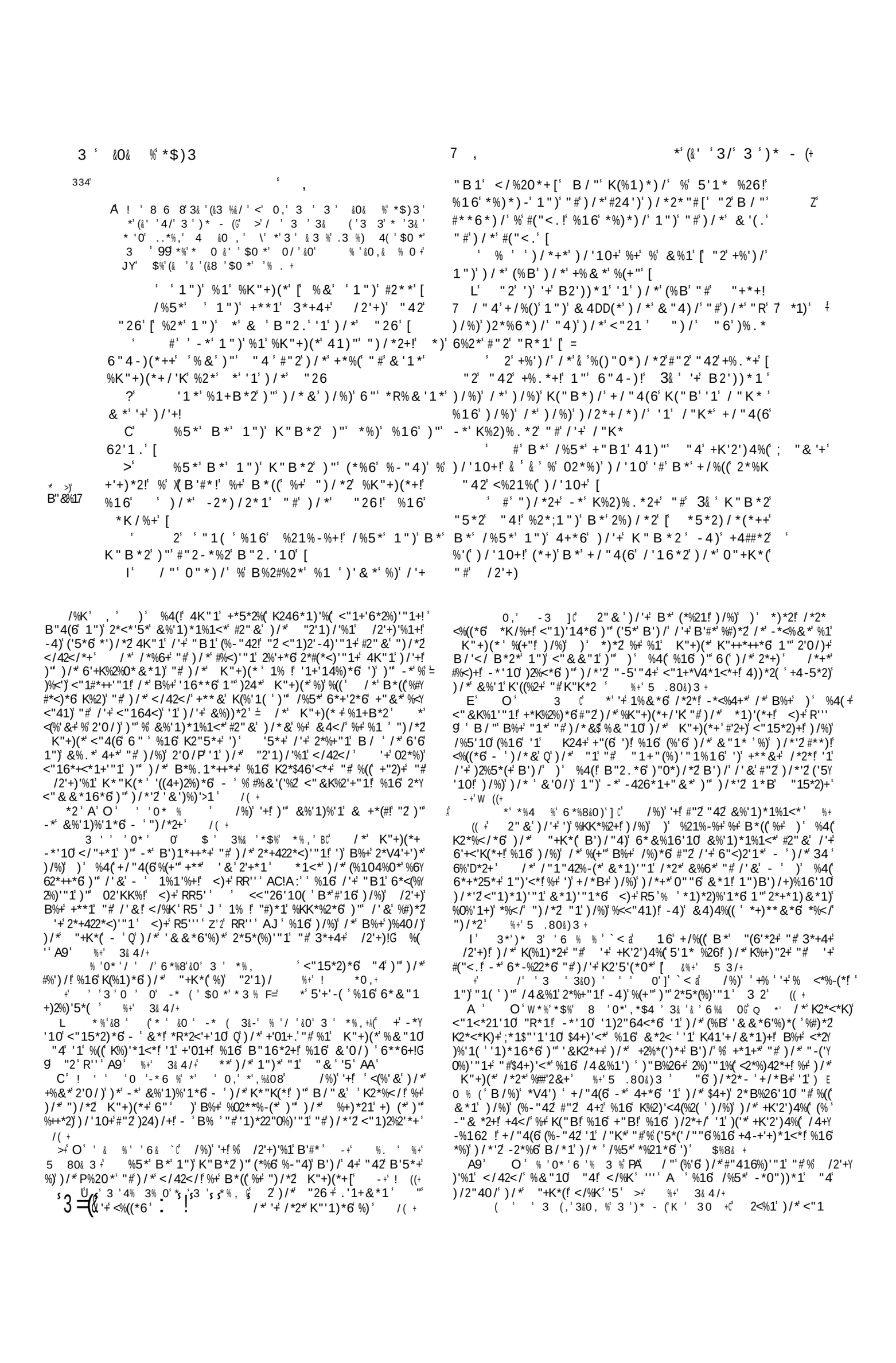
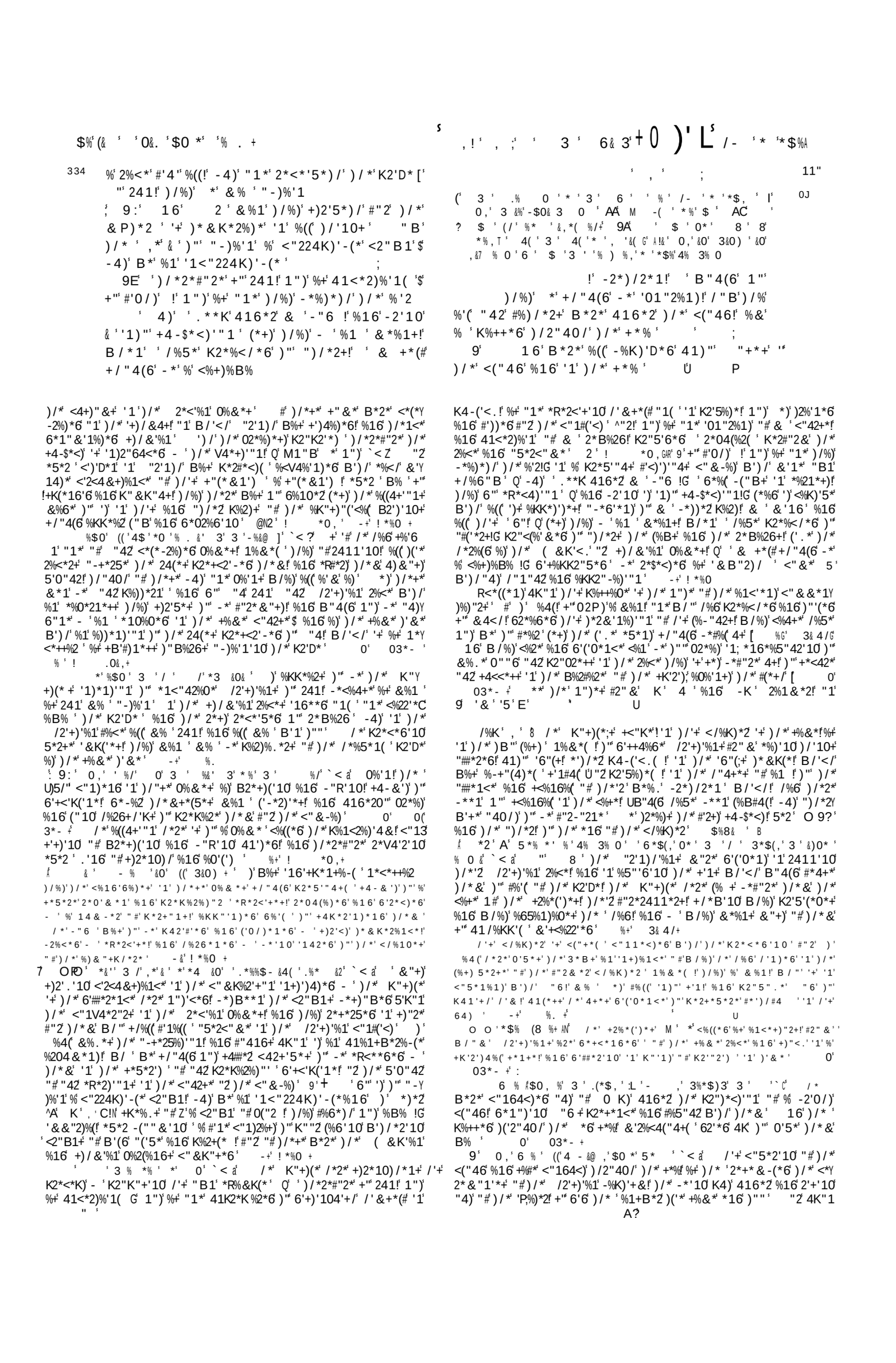
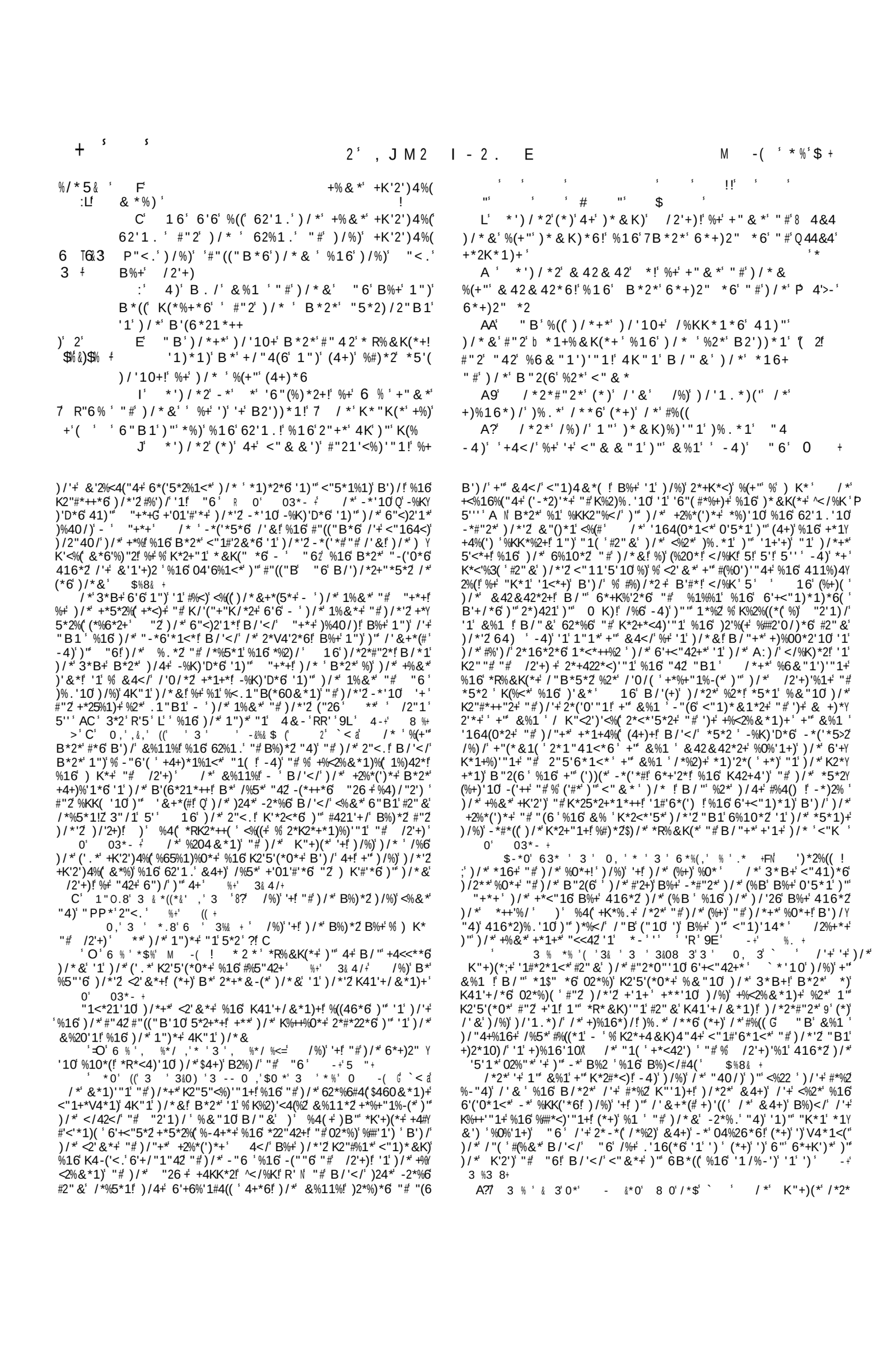
+*%' ' 0' 2' B"&%1' /*' "2'0'1%(' B"26'+'01'#'*+')/*' 5/"(*+K<'*+!' -")/' &%(*' %16' #*&%(*' -+' %. +
9J' O' '%3(' $.3' 3 (('3 ' '%*$4(' &0' 3' (3 a' '1' +4</')'&*+' %+')/*+*)/*' &%22'*6' +)%)*' '+' (' .*(' ')"' -*' #4((*+)' "# ;)2"4-(*!' ' %+' ! *0,+
9L' 3& ' /'4% 3% 0' 3' & '& ' 3*% G` < a' /'+' &% ' /%5*' -**1'+%'6' "4)' "# %K2"K/*)'<%(#"2*+'0/)' "#)/*' %KK2"%<'10' K*2+*<4)''"1'&6*2 *2"' *.8 +' 2!' ')' &% ' -*')%.*1' 0*1*2%((!' %+' '# /*' /%6'+%6' *)' %((K*2*"1+!B/*)/*2' &%22'*6' *%' 41&%22'*6' "1+'6*2)/%)')/*')'&*' "#')/'+' ('#*' '+' +/"2)' %16')2%1+')"2 ' ')' '+')/*2*#"2*)24*' +K'2')4%(B'+6" &')" ("'.' 4K"1' "4)B& 6'<"&#"2)+'%16

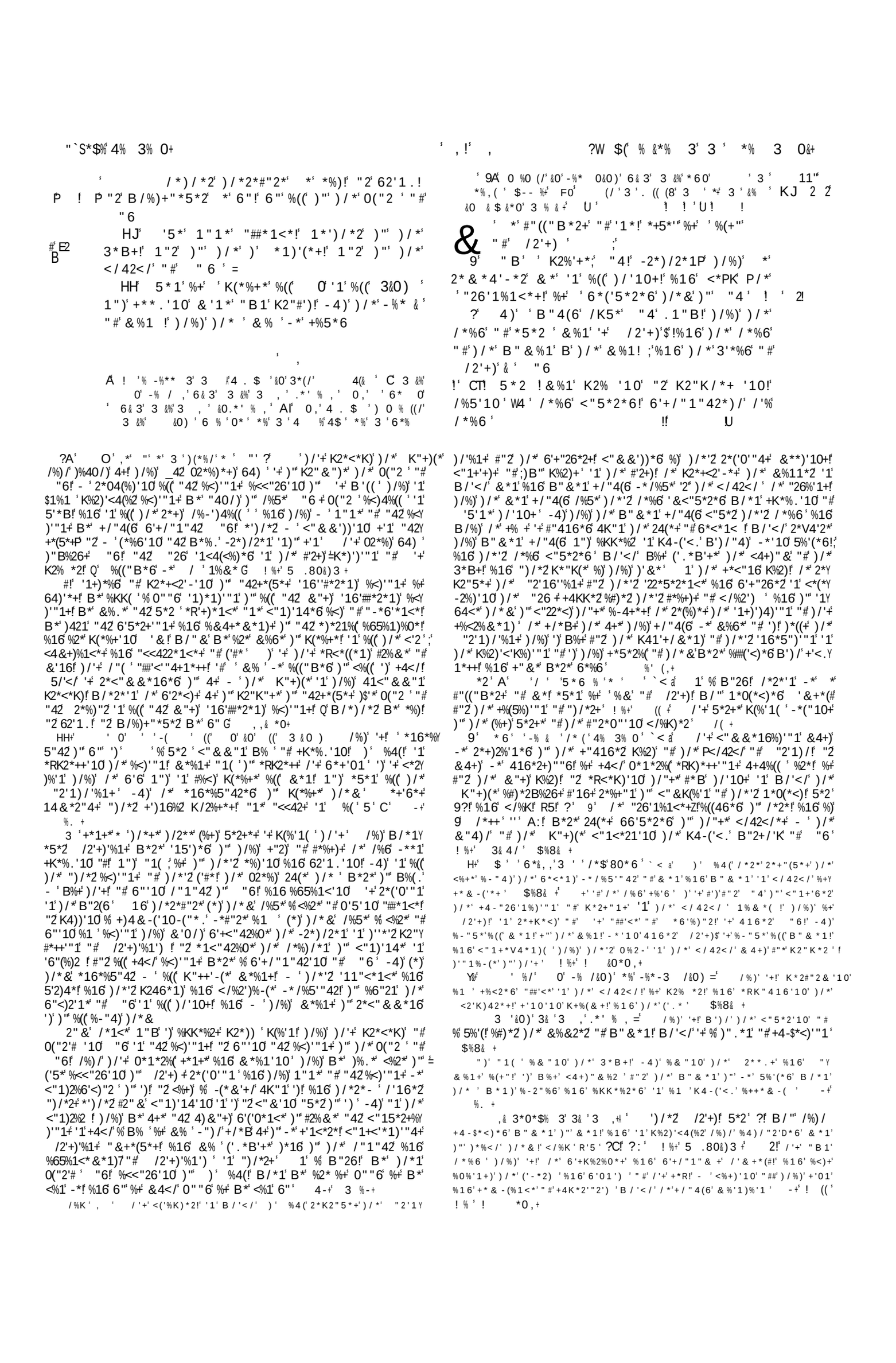
02%)'#'<%)''1+' %+!)/*' B'((3*%(/'4 G' *'4 ' *, % ' '1' 3 ' *1Y $" &*1)' "#)/*&'1")')" -*)"' &4</' %##*<)*6'B/*1'B*' /%5*' 3 ' *%' **' &4<'/' %##('<)*6'B/*1'B*' B%1)/*&' $%8& +
?9' $' '6*$(,'3 ' '/*$' 6&3*$' . % $(0 +F=')' %4(' /*2*' 0'5*+' %+' % 2*%+"1' #"2' /'+' "-+*25%)''"1+' <"1<*21'10' %1' 41&%22'*6')%)*' -*'10' K2*#*2%-(*')"' %' &%22'*6' "1*!')/%)' Q' /*' B"4(6' /%5*')/*&' B')/"4)' <%2*#4(1*++!G')/%)' '+!' #2*' #2" &')/"+*' 02*%)*2' <%2*+' "#)/* B"2(6')/%)' %))*16' % &%22'*6'('#*' % ((+ +' 0*' 3 ' ' /'. ' ' 0 % ' $-*0' /*$ N' ")')/%)' ' B"4(6' #"2<*' 4K"1' "4' % 1*<*++')' "#' <"1)%'1'10!' %16')/*2*-' ' <%+)' % +1%2*' 4K"1' "42' <"1+<'*1<*+' -+' ! "+
O' 4$' * %' 3 '63&.3'&'.* (/' R' 2' &"+)' +4')%-(*')"' "42' K2"#*++'"1' "#' /2'+)'%1')' %+' ((+ /'+' +**&+)"' '1)'&%)*')/%)')/*' B*2*' 1"B' 1' <'2<4&+)%1<*+' 1' B/'<' "6' 6'6!' %+')' B*2*!' *R%<)' % K*<4('%2 +*5*2')' #2"&'%((/)/*'2)/"40/)+' %16')/%)')' B%+' %)'&*)"))/'1.'#)/*')2'%(+"#&%2) 26"&!2%)/*2)/%1)/*' *1Y 6*%2&*1)' "#/4&%1' %##*<)''1+' %+' *,,%&,) /*' 2*%+"1+' %65%1<*6' -')/*' K"+)(*' #"2' K2*#*22'10')/*' +'10(*')"')/*' &%22'*6' +)%)*' %2*!')/%)' 41&%22'*6' K*2+"1+' "#-")/' +*R*+' /%5*' &"2*'(*'+42*')/%1')/*' &%22'*6!)"' 9'<%2*' #"2')/*)/'10+' "#)/*' "26!' /"B')/*' &%'K(*%+*')/*' "26!G' %16' *' 2*16*2')/*&+*(5*+' B'/"(!-")/'1'-"6' %16' '1+'+K'2')G' 1')/*' #2+)' %0*+' # /2'+)'%1')!' 1*R)')"')/*2' -*(*5'10' '1' /2'+)!' &*1+' 02*%)*+)' 64)' B%+' K4-' ('66')"' <"1#*++')/*2' #%')/'1' '&!' /"B' 02*%)' +"*5*2')/*' *5'(+' &'0/)' -*!' B/'</' -*#*((')/*&' "1')/%)' %<<"41)' "2' -' "*1(' <"1#*++'"1' B')/'+)/*2' #%')/!' *+K*<'%((' '#')/*' +*%(*6')/%)' <"1#*++'"1' B')/')/*2' -("'6!')/*' "+K*(B%+)F' -*' <"1)'14*6' '1')/*' B"2(6' /'+' B%+' %1' -$*<)' "#+4</' '&K"2)%1<*!)/%)' "42' "26' +"(*&1(' 6*<(%2*6!9' /"+"*5*2+/%((<"1#*++' *' -*#"2*' &*1!G' '1' %')&*' "# K*2+*<4)''"1!Q /'&B'((' <"1#*++' %(+"' -*#"2*' %)/*2B/</'+' '1' /*%5*1' ;' 4)B/"+"*5*2+/%((6*1' *' -*#"2*' &*1!' /&B'((' %(+"' 6*1!' `<G /'+' 64)' -*'10'%+' 6'##'<4()' %+' ')' B%+' 1*<*++%2!)/%)K*2+"1+' "#-")/'+*R*+' &'0/)K*2#"2&*')'B')/'/*' 02*%)*2' *%+*!)/*' K"+)(*' 2*<"&&*16*6')"' -")/' % +'10(*' ('#*!' '#)/*' !<"4(6 1()/*2*'1'('5*' <"1)'1*1)(' 7-*<%4+*' -*'10'%))%<'/*6')"(*' B"2(6' -' #*B*2')'*+!)/*' B"4(6'(*%5*' ')' B')/')/*' (*++' 2*02*)!' B/*1'<%((*6')"' 6'*' #"2')/*' "+K*(' %+' 5 .80&)3 +
?E' O' *6 %,'3& ''&%)&0 ' /%)' '+!' /'+' 5'20'1' 6%40/)*2!' %+!)/*)*2&'+"&*)'&*+' +'01'#'*+' '1')/*' -*+)' 2**.' B2')*2+' %88&&% ' .8($ 0 %' /*' &*%1'10 "#)/'+' %16')/*' 1*R)' 5*2+*' '+' %+!#"((B+ ' #'%1 ' &%1'#'16')' 1")'#')")"' <"1)'14*' /'+' 6%40/)*2' '1')/*' +)%)* "# 5'20'1')!#"2')/%)' *')/*2' /*2' %0*' "2' 6'+K"+')"' 1' K*2+4%6*+')/* <"1)2%2 !'U' K2*+' /'&'1")!' -4)' (*%5*' /'&'%)'; ('-*2) ' (*)' /'&'6"











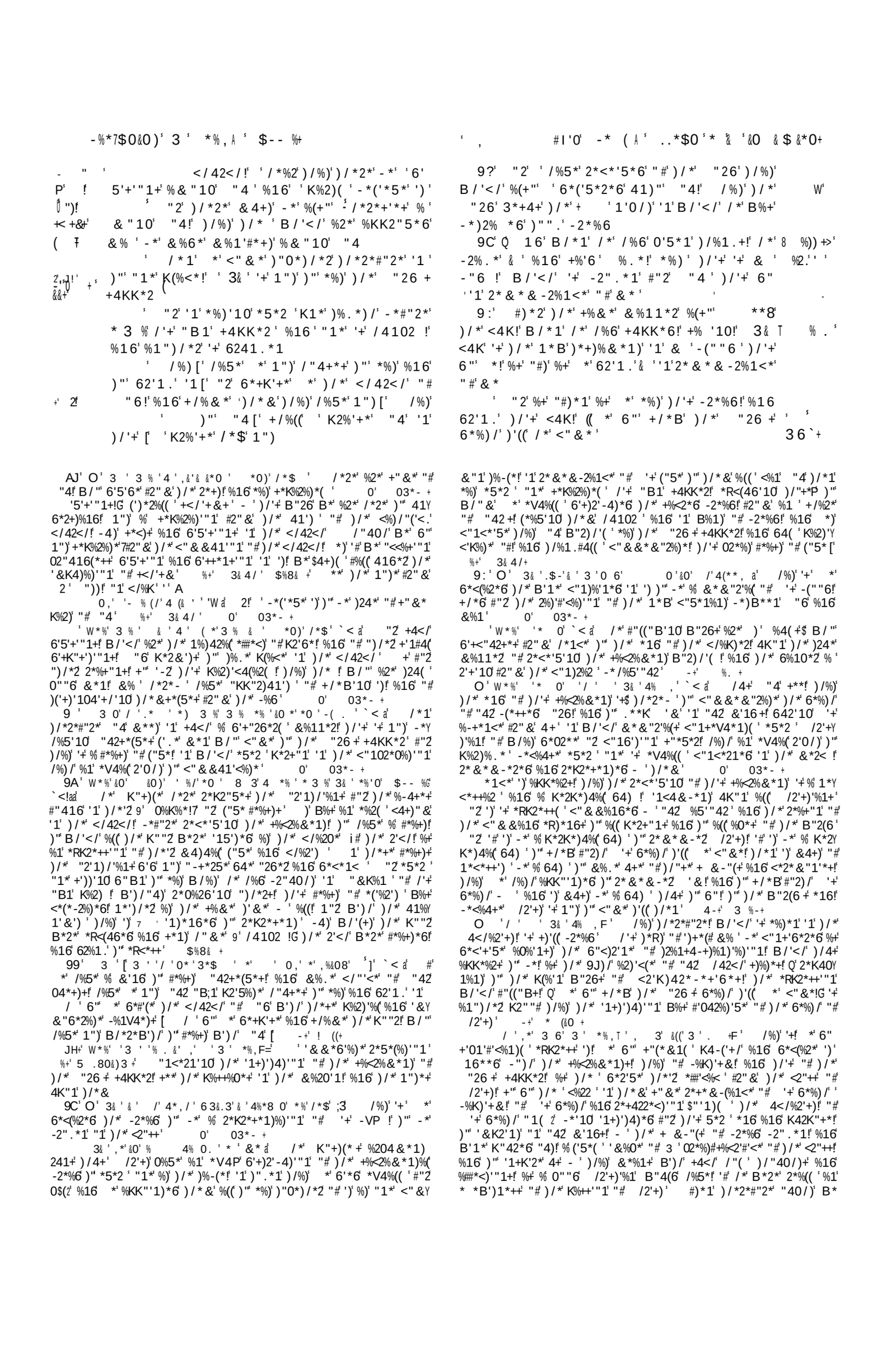
Painted by Carlo Dolci.

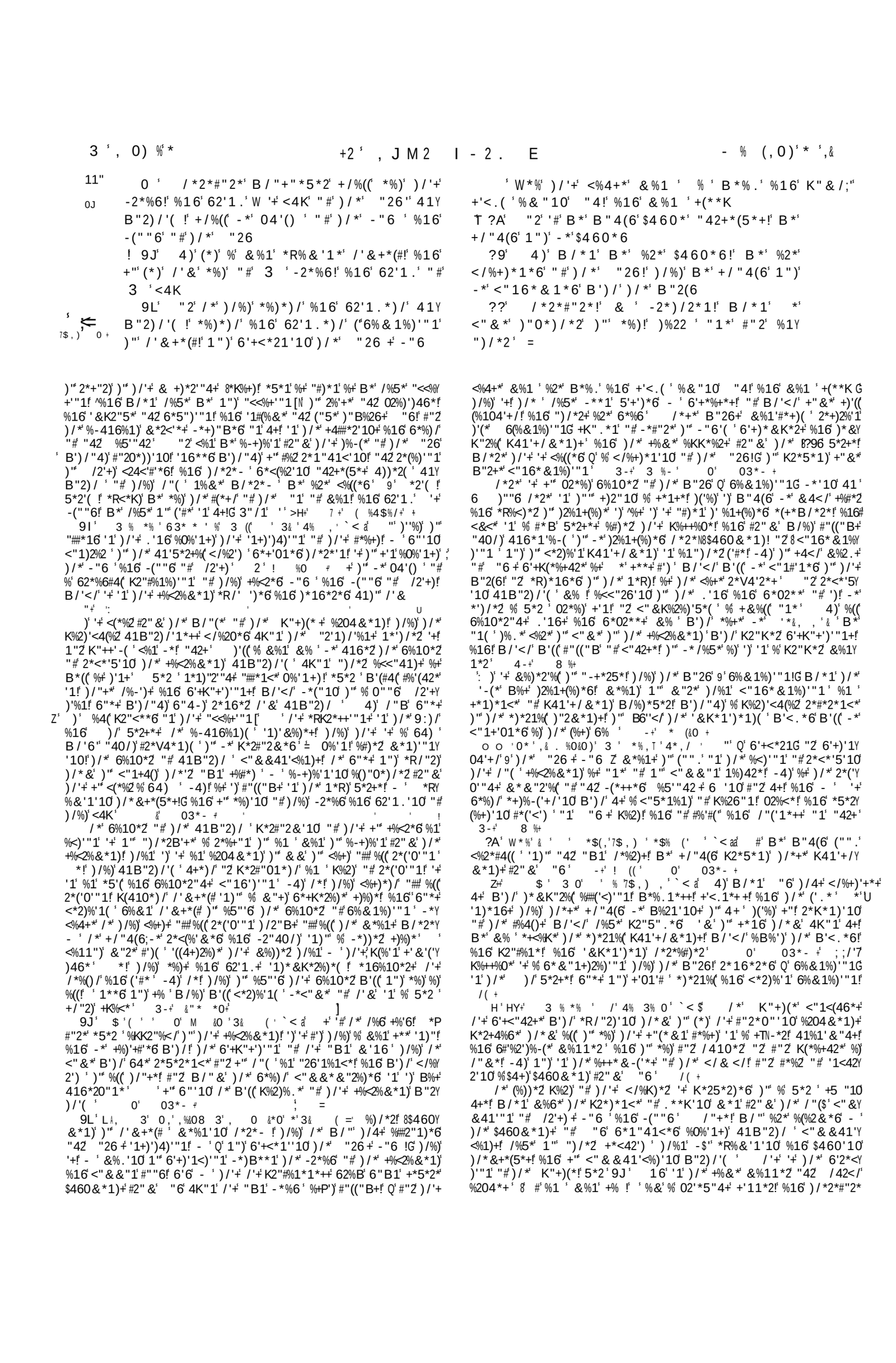
Engraved by H.Moses.

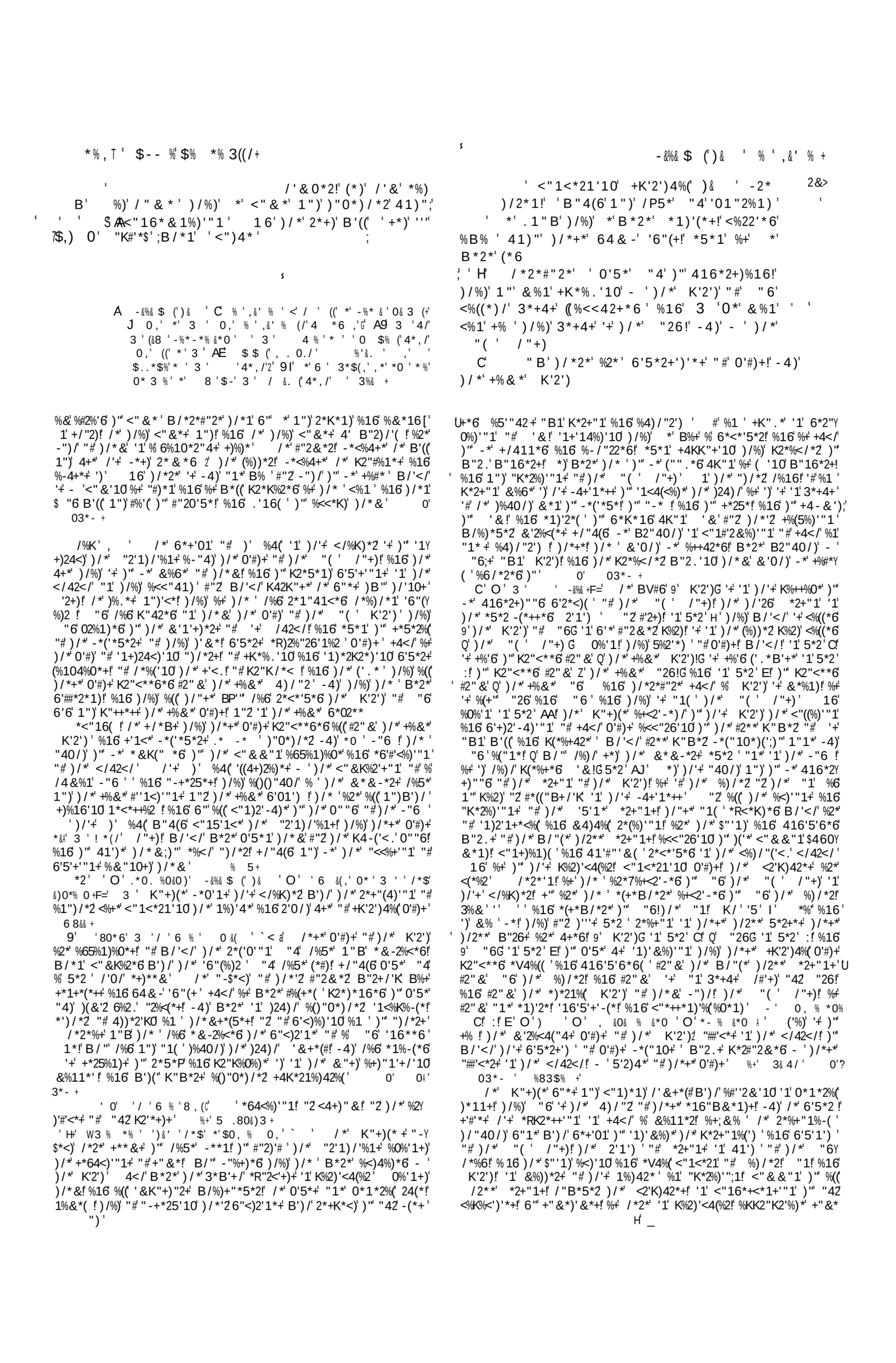
THE INSTITUTION OF THE SACRAMENT OF THE LORDS SUPPER.

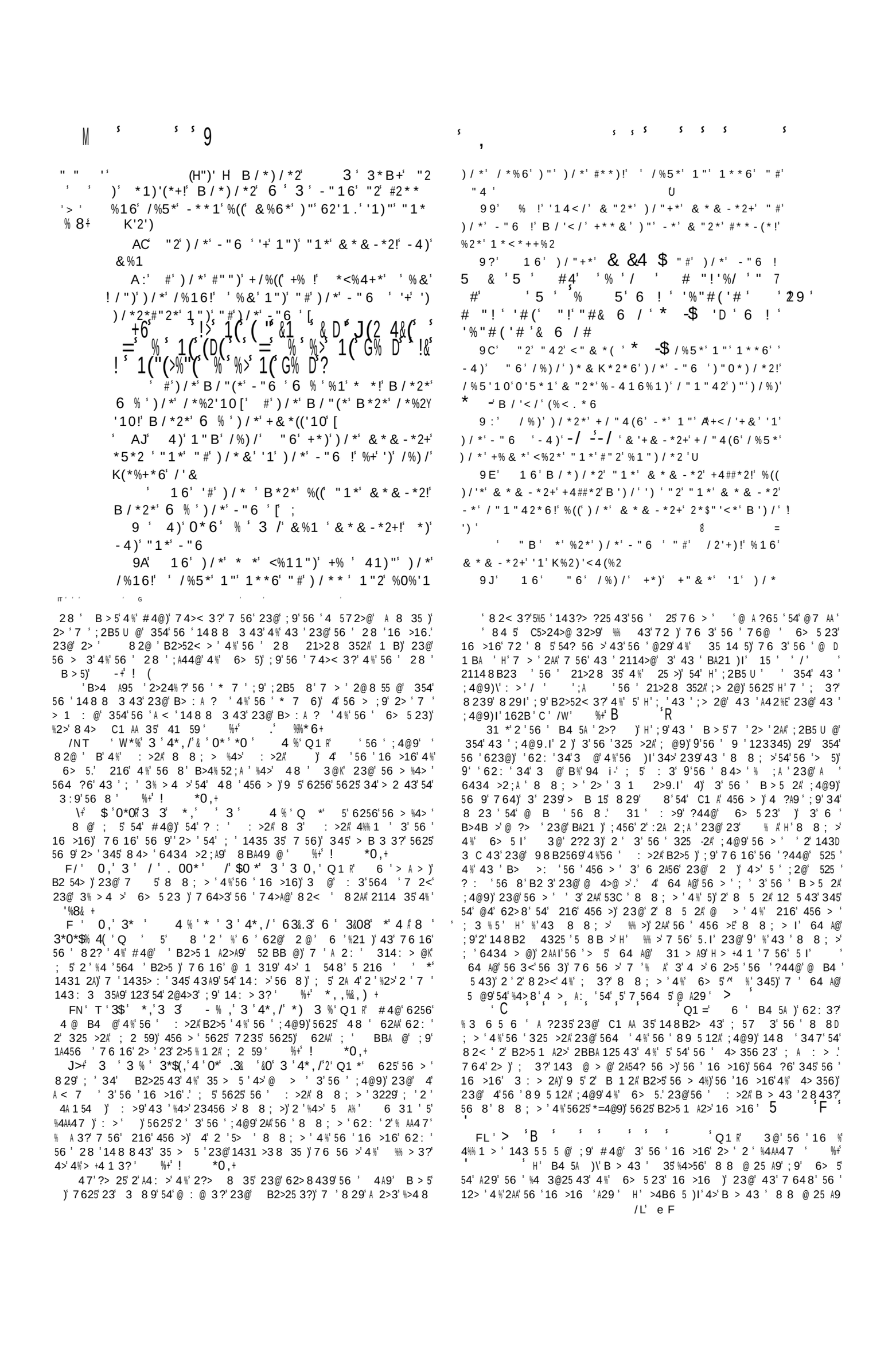
Corinthians ch.11.vs.23.

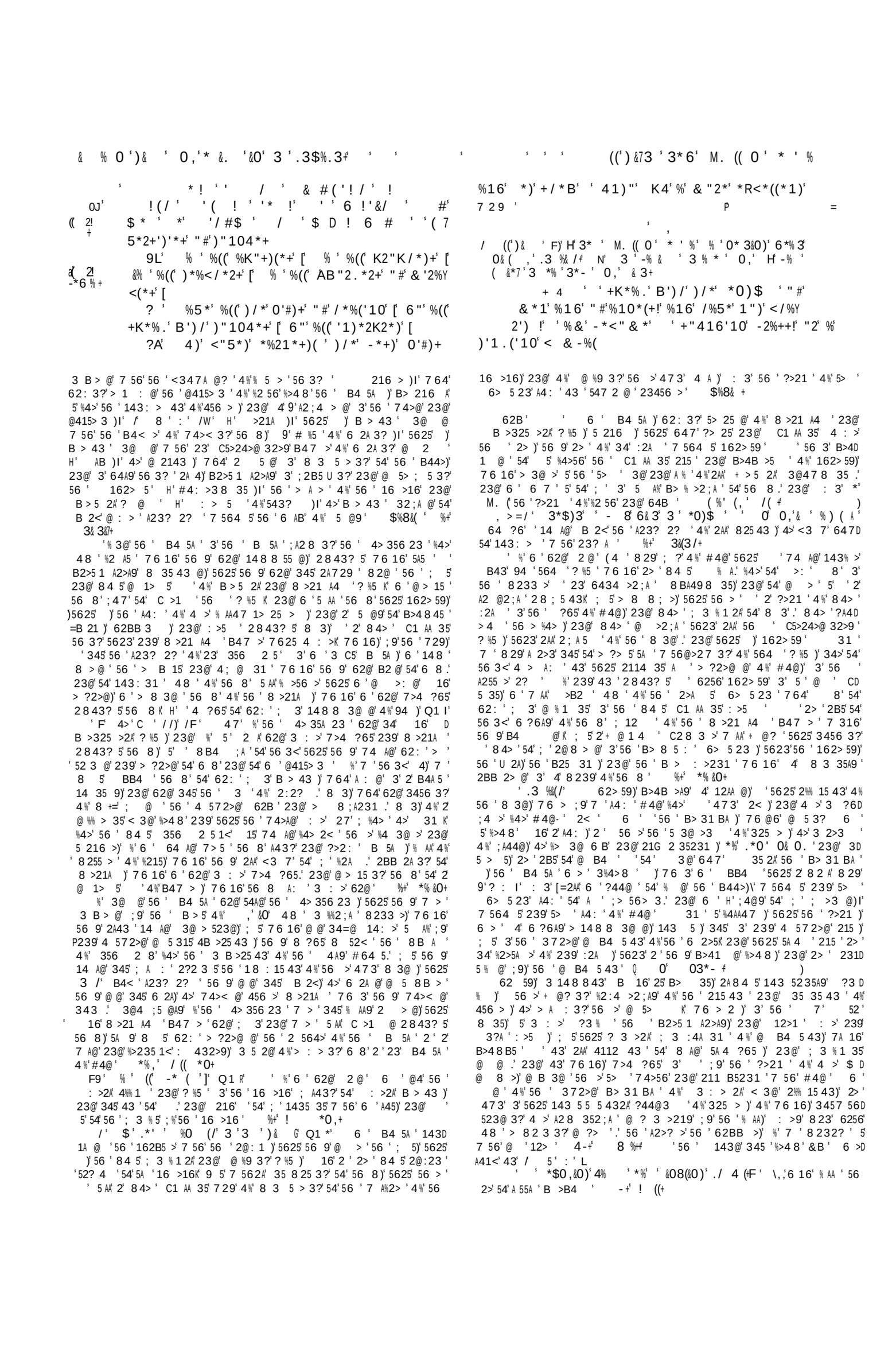
Published by the Society for promoting Christian Knowledge, June 1.1846.

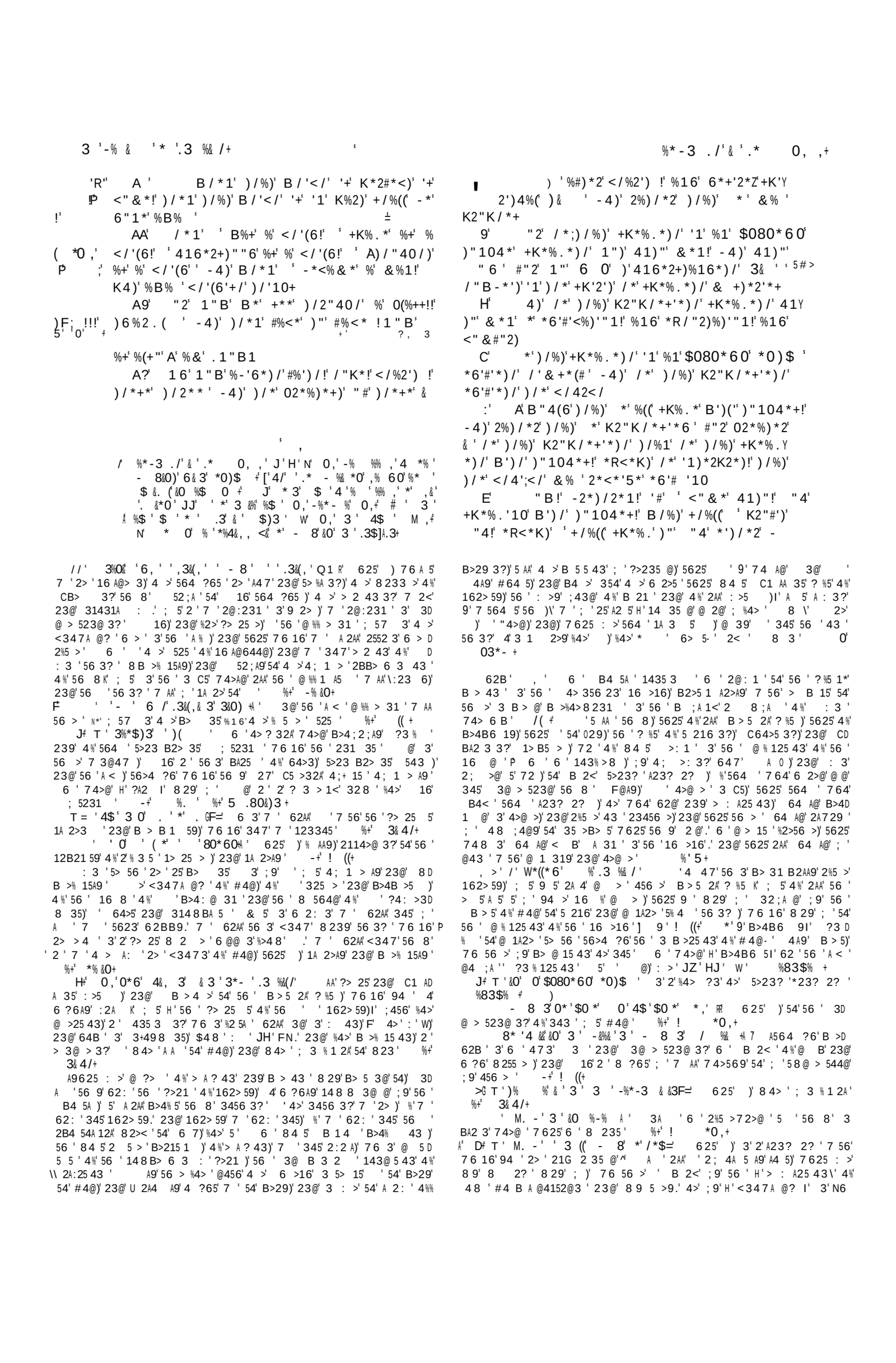












334

AEʻ (+*ʻ B/*1ʻ)/"4ʻ+/%()ʻ -(*++ʻ B')/ʻ)/*ʻ +K'2')ʻ /"Bʻ+/%((ʻ /*ʻ)/%)ʻ "<<4K'*)/ʻ)/*ʻ2""&ʻ "#ʻ)/*ʻ 41(*%1'*6ʻ+% ʻ & *1ʻ%)ʻ)/ ʻ 0'5'10ʻ "#ʻ)/%1.+ʻ+**'10ʻ/*ʻ416*2+)%16*)/ʻ1")ʻB/%)ʻ)/"4ʻ+% *+)ʻ [

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ʻ *)ʻ '1ʻ)/*ʻ </42</ʻ ʻ /%6ʻ 2%)/*2 +K*%.ʻ #'5*ʻ B;"26+ʻ B6)/ʻ & ʻ416*'+)%16'10ʻ)/%)ʻ4/ʻ /ʻ'*&.ʻ ʻ &'0/)ʻ)*%</ʻ")/*2+ʻ%(+"ʻ)/%1ʻ)*1ʻ)/"4+%16ʻ B"26+ʻ '1ʻ %1ʻ & &0*M.0ʻ)"104*ʻ Ù Ä

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9Aʻ 1ʻ)/*ʻ(%Bʻ')ʻ'+ʻ;8B2'))*1ʻ ')/ʻ 0ʻ* ʻ ")/*2ʻ)"104*+ʻ%16ʻ ")/*2ʻ('K+ʻB'((ʻ ʻ+K*%.ʻ 41)"ʻ)/'+ʻK*"K(*ʻ%16ʻ *)ʻ#"2ʻ%((ʻ)/%)ʻB'((ʻ)/*ʻ1")ʻ/*%2ʻ&*!ʻ+%')/ʻ)/*ʻ "26

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#"2ʻ)/*&ʻ)/%)ʻ-*('*5*ʻ1")!ʻ-4)ʻ#"2ʻ)/*&ʻ2B#5' 52 B/'</ʻ-*('*5*ʻ ; ʻ P' P

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9Cʻ 4)ʻ'#ʻ%((ʻK2"K/*+ !ʻ%16ʻ)/*2*ʻ<"&*ʻ '1ʻ"1*ʻ)/%)ʻ-*('*5*)/ʻ1")!ʻ"2ʻ*0ʻ41(*%21*6!ʻ /*ʻ'+ʻ<"15'1<*6ʻ"#ʻ%((!ʻ/*ʻ'+ʻ$460*6ʻ"#ʻ%((

9:ʻ 16ʻ)/4+ʻ%2*ʻ)/*ʻ+*<2*)+ʻ"#ʻ-'+ʻ/*%2)ʻ &%6*ʻ&%1'#*+)ʻ %16ʻ+"ʻ#%((10ʻ6"B1ʻ"1ʻ #%<*ʻ/*ʻB'((ʻB"2+/'Kʻ "6!ʻ%16ʻ2*K"2)ʻ)/%)ʻ "6ʻ'+ʻ1ʻ "4ʻ"#ʻ%ʻ)24)/

9Eʻ "Bʻ'+ʻ')ʻ)/*1!ʻ-2*)/2*1ʻ[B/*1ʻ *ʻ<"&*ʻ)"0*)/*2!ʻ*5*2ʻ"1*ʻ"#ʻ "4ʻ/%)/!ʻ%K+%(&!ʻ/%)/ʻ%ʻ6"<)2'1*!ʻ/%)/ʻ%ʻ)"104*!ʻ/%)(ʻ %ʻ2*5*(%)'"1!ʻ/%)/ʻ%1ʻ'1)*2K2*)%)'"1ʻ *)ʻ %((ʻ)/'10+ʻ-*ʻ6"1*ʻ41)"ʻ*6'# '10

ʻ #ʻ %1ʻ &%1ʻ +K*%.ʻ'1ʻ %1ʻ J)"104*!ʻ -ʻ)B"!ʻ"2ʻ%)ʻ)/*&"+)ʻ)/2**!ʻ%16ʻ - ʻ<"42+*ʻ%16ʻ(*)ʻ"1*ʻ '1)*2K2*)

9Jʻ 4)ʻ'#ʻ)/*2*ʻ-*ʻ1"ʻ'1)*2K2*)*2!ʻ(*)

43)ʻ5623ʻ7 56'2ʻ> B 5 5 43ʻ4%'56 ʻ 2 8 .ʻ 34>ʻ7 AAʻ ; ʻ : >ʻ7 2>9ʻ 4%'2ʻ@ :4 5' 4 A)ʻ%4>ʻ7235ʻ4%'3 7ʻA23? 2? ʻ 4 8 8 43ʻ > 2 43ʻ B>434 31 ʻ56)ʻ23@'56 ʻ& ;A ʻ143%>8 ʻ 5ʻ ʻ%3@ʻ : >2Aʻ%4>8 ʻ 4%'B>29 >))B> 1> ; @ʻ43ʻ : >2Aʻ4112 43 ʻ 3ʻ 56 ʻA2:)ʻ4%' 4)ʻ 8 ; ʻ: ʻFF)F)ʻQ1.ʻC ʻ 0) M.ʻ 5 CC ʻW)ʻL.ʻCC: ʻ/ T /0ʻ ʻ % 3@ʻ2%5 >72>@ ʻ2ʻ764A ʻ ;44<ʻ4%'%4>8)ʻ5% ʻ 2%8 ʻ4%' 2: @ʻ ʻ % 3@ʻ4 >ʻ 2: 4 >ʻ%> G 35 3?ʻ56 ʻA 7 6ʻ 932?4?)ʻ76 16ʻ143 ʻ 5235A9ʻ @ʻ2ʻ%4>8)ʻ23@)ʻ? 3 >2AA9ʻ B 2< 3?)ʻ2ʻ: >9ʻ8 23ʻ43 ʻ ʻ% 3@ʻ 8 ʻ 3+4 3 3?ʻ ʻ@ 1BA ʻ2ʻ%4>8ʻ4%' ʻ473ʻ148B4 D 3?'%4>ʻ56 8.ʻH' 6 3ʻ9 ʻB>29)ʻ 29ʻ >ʻ'256 >)Iʻ23@ 443ʻ 29)ʻ 25ʻ56 ʻ : >9ʻ5 8)ʻ76 3ʻ56 ʻ? %5ʻ4%' 3 B > @ʻB>29 >ʻ72 ʻ148 843)ʻ 56 > ʻ 2ʻ 5>43?2BB 2>231 ʻ 3 56 ʻ%4 >56ʻ 162B5 >ʻ4%'56 ʻ 15)ʻ 5A 25ʻ56 B4 5A ʻ23@'56 >ʻ%4AA47 > ʻ @ʻ2'%4>8)ʻ56 > ʻ 5ʻ@473ʻ '4>ʻ647ʻ A ʻ14 A@ʻ56 9ʻH'A %5ʻ B'56 >ʻ:4 1)ʻ23@ 29ʻ5ʻ7 56ʻ 43 ʻ2114>@)Iʻ2ʻ: >ʻFN'2 > ʻ ʻ56 9ʻ@ @N >4;2;A9ʻ56ʻ: >9ʻ 3 C5ʻ2? ʻ2%5 >ʻ56 8ʻB>215 @ʻ56 ʻ8 564@ʻ4%'B ;A1<ʻ74> 6 B)ʻ25ʻ A 2 5ʻ 3ʻ2ʻ?44@ʻ8 2 > ʻ23@ʻ%4>ʻ 84> ʻ5623ʻ AC ʻ9 2> ʻ 5ʻ 6256ʻ ; 3ʻ7 564 5ʻG 543ʻ2A84 5ʻ 3 : > 2AA9ʻ56 ʻ43A9ʻ43 ʻ 6 > ʻ ʻ 345ʻ25ʻ56 ʻ@29ʻ239ʻ;4@9ʻ4%' 6> 523 ʻ 3ʻ56 ʻ74>A@)ʻ; 5ʻ7625ʻ 3ʻB2>5ʻ4%'56 >ʻ >:1)ʻ %'345ʻ56>4 ?64 5ʻ 5)ʻ%4>8 ʻ4%'6 823ʻ148D B4 543ʻ.ʻ 3A ʻ5ʻ ;ʻ56 ʻ14516ʻB> ;95 >23)ʻ764ʻ62@ʻ43 ʻ 8D 8 @ 25 A9ʻ B43ʻ56 ʻ > %4>8 25 43)ʻ564 ?6ʻ 5ʻ 2%5 >72>@ ʻ % AAʻ 354ʻ @ .023@ʻ56 ʻ@ 35 > ʻ%>48ʻ4 >ʻ473ʻ16 >16)ʻ8239ʻ4%'7648)ʻ 3457 56 523@ 3?)ʻ 3?ʻ 3ʻ56 >ʻ2 8 ;A ʻ6983)ʻ5625ʻ2> ʻ%4>8 ʻ 4%' 6 823ʻ148B4 543)ʻ 7 564 5ʻ 1> BA ʻ (5ʻ %ʻ C5 8B4>2>9ʻ B>29 > ʻ 2> ʻ > G > @)ʻ C5 8B4>2>9ʻ B>2 ʻ 2> ʻ544 ʻ '4>ʻ 5ʻ ʻ G 2AA9ʻ 2 @)ʻH / 7 AAʻB>29ʻ7 56ʻ56 ʻ B 5)Iʻ23@)ʻ9ʻ ʻ7 AAʻ 3?ʻ7 56ʻ 56 ʻ B>5 Iʻ 4-ʻ 8 %+

AM ʻ T ʻ /ʻ && ʻ 6 ʻ B4 5A -ʻG 543ʻ3 BA)ʻ5625ʻ5ʻ72 ʻ 5>ʻ1 548ʻ3ʻ56 ʻ 6> 523ʻ16 >16ʻ%>48ʻ56 ʻ; ? 33 3?)ʻ%4>ʻ2Aʻ56 ʻ B 4BA)ʻ 3ʻ 8 525 4Bʻ4%'56 ʻ231 35ʻ74> * B)ʻ54ʻ ?3 %9ʻ56 >ʻ2 35ʻ 54ʻ56 ʻB ;A1<ʻB>29 > ʻ ;9ʻ 29 3?ʻ 8 3ʻ25ʻ56 ʻ1431A 43ʻ4%'56 8 ʻ %'56 ʻ1 548ʻ3ʻ56 ʻ* 7 6ʻ16 >16ʻ7 ʻ62: ʻ 8239ʻ C28BA ʻ 5ʻCC: ʻA:ʻ 6ʻ: ʻM.ʻ A @>ʻ C ʻNW' %+ 5 .ʻ 80&)3≠ ʻ56 ʻ345 ʻ43ʻ 5ʻCC: ʻ/0ʻ ?> 2;A9ʻ54ʻ56 ʻB>21D 5 1 ʻ4%'56 ʻ* 7 6ʻ16 >16)ʻ23@ʻ4%'56 ʻ 6> 523ʻ3ʻ56 ʻB4 5A -ʻ @29)ʻ56 ʻ ; G 35ʻ 11A 2 512Aʻ7>5 >ʻ 6 7)ʻ5625ʻ5ʻ @ʻ54ʻ ;ʻB>434 31 @ʻ2 @ ;A9ʻ23@ʻ% >: 35A9.ʻ 216ʻB > 43ʻ CB> 3?6 ʻ 473ʻ%2 56ʻ4>ʻ@ >)ʻ23@ʻ23 8 25 3?ʻ5625ʻ4%'6 ʻ% AA47 74> 6 BB > ʻ 64 A@ʻ56 >%4> ʻ ;9ʻ34ʻ8 23ʻ3 ?A 15ʻ54ʻ? : ʻ 56 ʻ B>44%+ʻ 2843? 5ʻ4@ >)ʻ5625ʻ7 ʻ345ʻ43A9ʻ6 2>ʻ56 ʻ >: 1 ʻ7 56ʻ255 3543))ʻ ; 5ʻ+4 3ʻ 3ʻ 5ʻ7 56ʻ 2>3 53)ʻ 4-ʻ 8 %+

ʻ T ʻ%'&3ʻ /ʻ$0, % 0,&0)ʻ 625ʻ)ʻ7 56ʻ8 9ʻ 3@ > 523@D 3?ʻ 4ʻ 8BA49 @ʻ5625ʻ ʻ8 29ʻ5 216ʻ456 > ʻ2A 4ʻ %+ʻ 3&4/+

JUʻ % 3% 0ʻ4ʻ0*ʻ .3&(,% 0ʻ &0ʻ $0, % 0,&0) 625ʻ94 ʻ 64 A@ʻ16 A@ 6A9ʻ 82< ʻ 4 5 3525 43ʻ4%'56 ʻ? %5ʻ4%'564 ʻ543?)ʻ 76 16ʻ456 > ʻ 3@ > 523@ʻ345ʻ -ʻ ! ((+

&0ʻ (&. Jʻ &9ʻ56 ʻ5 >8ʻ ʻB>4;2;A9ʻ54ʻ; ʻ 3@ > 544@ : >9ʻ 4>5ʻ4%'AAʻ5 8B >ʻ4%'8 3@)ʻ1435>2>9ʻ54ʻ56 ʻ? 35A 3 ʻ23@ʻ 3341 31 ʻ4%'16 A@644@.ʻ 23@)ʻ 3ʻ B2>5 1 A2>)ʻ56 >ʻ 8 A25 43ʻ 23@ʻ 5>%ʻ2;4 5ʻ56 ʻ C >1 ʻ4%'56 >ʻ?%5ʻ 3ʻ56 >ʻ2 8 ;A ʻ *.8 + 4$ʻ&0ʻ$0, % 0,&0)ʻ4ʻ 0#= 15ʻ2ʻB > 43ʻ4%'8 25 > + @?8 35)ʻ764ʻ<347ʻ7625ʻ %55 3?ʻ54ʻ; ʻ@43 ʻ %+ʻ 3&4/+

F/'FF' 0ʻ3ʻ(6ʻ&ʻ&ʻ6%& 0ʻQ1 Rʻ 6 ʻ B4 5A ʻ6 >ʻ5 AA ʻ56 ʻ 4> 356 23)ʻ5625ʻ9ʻ 3ʻ56 ʻA27)Iʻ5625ʻ)ʻ 3ʻ56 ʻ7 >5 3?ʻ4%'56 ʻ A@ʻ 528 35)ʻB2>5 1 A2>A9ʻ ʻCC: ʻ//)ʻ 5ʻ ʻ@ 1A2> @)ʻ5A 25ʻ; 12 ʻ 56 ʻB 4BA ʻ4%'* @26ʻ74 A@ʻ345ʻ; ʻ 3 5> 15 @ʻ;9ʻ 3 ʻBA2 3ʻB> 216D 3?ʻ4%'@ ʻ"4>@-ʻ >4B6 5)ʻ56 > %4> ʻ ʻ74 A@ʻ12 ʻ5A 8ʻ54ʻ; ʻ B4< 3ʻ54ʻ 3ʻ23ʻ 3<3473ʻA23? 2?)ʻ328 A9)ʻ;9ʻ%4> ?3ʻ 3 8 ʻ 23@ʻ2>8)ʻ764 ʻA23? 2? ʻ56 9ʻ 64 A@ʻ345ʻ 8@ > 523@ʻ 6 31 ʻ 6ʻ 3% >)ʻ5625ʻ56 ʻ 5>23? ʻ543? ʻ ; 3?ʻ56> 25 3 @ʻ2ʻ2ʻ BA2? ʻ 54ʻ#4@-ʻ B 4BA)ʻ56 > ʻ 72ʻ 34ʻ > 2 43ʻ 5A 25ʻ56 9ʻ 64 A@ʻ?A4>9ʻ 3ʻ 5625)ʻ76 16ʻ72 ʻ 8 321 @ʻ2ʻ2ʻ+ @?8 35ʻ B43ʻ56 >ʻ%4> %25A > K 2@@ 3?)ʻ5625ʻ56 ʻ 5>23? ʻ543? ʻ 347ʻ? : 3ʻ 7 > ʻ 35 3@ @ʻ%4>ʻ 23456 >ʻ)ʻ : 3ʻ54ʻ; ʻ%4>ʻ 2ʻ ?3ʻ 4%'56 ʻ 8 2>: AA4 ʻ B47 >ʻ 4%' #4@-ʻ B > 5)ʻ%4>ʻ56 ʻ143: 15 43ʻ4%'564 ʻ5625ʻ; A : ʻ345ʻ56 ʻ#4 D B A)ʻ23@ʻ345ʻ 4ʻ 8 16ʻ%4>ʻ56 ʻ ; 3 %5ʻB%'564 ʻ5625ʻ@4ʻ; A : ʻ 2AD > 2@9K ʻ76 > 2 ʻB>4B6 9 3?)ʻ4>ʻ 35 >B> 5 3?ʻ56 ʻ 1> B5 >)ʻ >: ʻ 345ʻ%B>ʻ 3% @ A ʻ764ʻ; A : ʻ345)ʻ; 5'%4>ʻ 6> 523 ʻ764ʻ2> ʻ2A> 2@9ʻ 143: >5 @ʻ54ʻ56 ʻ%256 ʻ $%8& ʻ -ʻ ! ((+

F ʻT ʻ 3ʻ63*(ʻ.3$%.(&= ʻ 41 59ʻ4%' 6> 523 ʻ23@ʻ343 ʻ A ʻ %+ʻ ! *0,+

FN ʻ $ʻ& ʻ ((ʻ-%*-3 /ʻ= 3@ʻ 35 B> 5ʻ 56 ʻ 1> B5 >)ʻ;9ʻ 14 > ʻ -ʻ ! ((ʻ 3 ʻ2%5 >ʻ23456 >)ʻ: >ʻ /ʻ %+ʻ 3&4/+

ʻʻ3ʻ&ʻ.*0'&0. ,ʻ* ʻ ((3 ʻ& ʻ7$,) ,ʻ*7Aʻ ((GF= ʻ ʻ ʻ 82@ʻ54 + @?ʻ4>ʻ@ 1 >3ʻ2> ?65ʻ6 ʻ473ʻ 525ʻ23@ʻ143@ 5 43ʻ %+ʻ ((+ # +ʻ ! * ʻ& ʻ& ʻ 3 0ʻ4% 3% 0ʻ]ʻ Q1 Rʻ 625ʻ56 3ʻ ʻ54ʻ; ʻ@43 ^ʻ 6 3ʻ9 ʻ148 ʻ54? 56 >)ʻA 5ʻ : >9ʻ43 ʻ4%'94)ʻ764ʻ ʻ 3@ @ʻ7 56ʻ 239ʻ B 12Aʻ? %5)ʻ 82<ʻ ʻ 4%' 5ʻ54ʻ56 ʻ ; 3 %5ʻ4%'56 ʻ16 >16ʻ -ʻ ! ((ʻ P]

FW ʻKT=(ʻ&ʻ3ʻ4/ʻ 6*ʻ*%ʻ ʻ3ʻ * ʻ4/ʻ&3% Aʻ 625ʻ)ʻA 5ʻ56 ʻ ? %5ʻ; ʻ C >1 @ʻ;9ʻ34ʻ8 4>ʻ5623ʻ574ʻ4>ʻ56> ʻ 25ʻ43 ʻ8 5 3?. 23@ʻ5625ʻ;9ʻ14 >)Iʻ4>ʻ : >2AA9)ʻ43 ʻ2%5 >ʻ23456 >ʻ %+ʻ ((+

X3$*# #-) %(#'-$# ' -/ ' ,/) ,/

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/ ' +'(*1<*' '1') / *' </ 42< / ' %16' (*)
_ ǂ /'&' +K*%.') "' /'&+*(#!' %16') "' "6
9L' *)') / *' K2"K / *)+' +K*%.') B "' "2') / 2**!'
%16' (*)') / *' ") / *2'$460*
HU' #' 0/' 3&0)' -*' 2*5*%(*6')"' %1") / *2'
) / %)' +')) *) /' - !' (*)') / *' #'2+)' / "(6' / '+' K*%<*
?A' "2' *' &% ' %((K2"K / *+ ' "1*' - ' "1*!'
) / %)' %((&% ' (*%21!' %16' %((&% ' -*' <"&Y
#"2)*6
?9' 16') / *' +K'2')+' "#') / *' K2"K / *)+' %2*'
+4-$*<) ") / *' K2"K / *)+
2' ??' "2' "6' '+' 1") ' 3 ' $ 3*%' "#') <"1 '
#4+'"1!' -4)' "#' K*%<*!' %+' 1' %((</ 42< / *+' "#'
0 ') / *' +%'1)+
?C' *)' "42' B"&*1' .**K' +'(*1<*' '1') / *'
</ 42< / *+' #"2' ')' '+' 1") ' K*2&'))*6' 41) "') / *&'
) "' +K*%.' -4) ' 3 /' % '.* 0, ,') "' -*' 41
7# 2' ' 6*2' "-*6'*1<*!' %+' %(+"' +%') / ') / *' G(%B
?:' 16' '#') / * ' B'(((*%21' %1 ') / '10!' (*)'
) / *&' %+.') / *'2' /4+-%16+' %)' / "&*' #"2')' '+'
%' +/%&*' #"2' B"&*1') "' +K*%.' '1') / *' </ 42< /

?E' /%) [' <%&*') / *' B"26' "#' "6' "4)
#2"&' "4' ["2' <%&*') ' 41) "' "4' "1(' [!
' #'%1 ' &%1') / '1.' / '&+*(#) "' -*' %' K2"Y
K / *)!' "2' +K'2')4%(!' (*)' / '&' %<.1"B(*60*') / %)'
) / *') / '10+') / %)' ' B2') *' 41) "' "4' %2*') / *'
<"&&%16&*1)+' "#) / *' "26
?J' 4)' '#'%1 ' &%1' -*' '01"2%1)!' (*)' / '&'
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' / *2*#"2*!' -2*) / 2*1!' <"5*') "' K2"Y
K / *+ !' %16' #"2-'6' 1") ') "' +K*%.' B') /'
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C ' *)' %(( ) / '10+' -*' 6"1*' 6*<*1)(' %16'
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' ,
' / ' 3%& A '% $%% .&*0' /F' 3 '-%*$ 3' 3 '0 . &/'* '
*$%' % $%% .&*0') &0 ' (($.3' ', 0/' 3 '% $%F
%.&*0'* ' 3 '4*,/ǂ F/' 3 '%$& ' H>' 0,' 00 %
3 % * ' > ' 0,'* ' 3 '.3 0)&0)'* ' 3 ' 3 ' 3 ((' 3 ' '
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o 6 -2*) / 2*1!' ' 6*<(%2*' 41 'U
) "' "4') / *' 0"+K*(B / '</' K2*%</*6

FL' T' ('3& ' - 8' *' 3& (' 0,'* ' *,+F(352AA9' \'54' 6 8D
A%) I' 23@' H' 54' #4@' I' 3' B>29 >' 23@' 5623< ? : 3?' ǂ 54-+
' T' 6*' %' 3% F= 3A9' 574)' 4>' 25' 84 5'56>) ' 25' 43 ' 8 5D
3?' ǂ H' 23@' A 5' 56 ' 456 >) I' 5625' 62: ' 56 ' 28 ' ? %5)' H + @?) I' 5625'
)' C28 3 ' 23@' @ 1 ' 7625' ' @ A : > @' ; 9' 56 ' %2>8 >' E>'
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' T' (' 3 ' &% '3*(,' 3& ' - . <= >' 1 2)' ; %4> ' 56 ' 456 >'
55 >' 6 ' > : A25 43 ' %+ǂ 3& 4/+
F' 0,' 3 ' -&%& ' * ' 3 ' -%*-3 ' % ' $47 .' *' 3 -%*-3 +B '
H' 6 ' B > 5 ' 4%' 56 ' >4B6 5) I' 5625')' 56 >' B > 5 2A? %5)' H' 2> '
;+ 15' 54' 56 ' >4B6 5) I' 4>)' 5' ' 3' 56 >' B47 >' 54' > 5>2 3' 56 8)'
23@' 143 G 35A9' 56 9' 8 29' B>4B6 9' 56 ' 43 ' 2%5 >' 56 ' 456 >'
%+ǂ 3& 4/+
5' 72 ' 8' 56 >' 164 1)' 76 3' 56 9' 74 A@' ' 56 ' B47 >' 4%'
B 2< 3?' 7 56' @ : > ' 543? .' 23@' 43' 7625' 4112 43 ' 56 9' 74 A@'
B>4@ 1 ' 56 ' B>29 > ' 23@' 6983)' 7 56' 76 16' 6 9' 7 > ' 3 B > @'
4-ǂ 8 %+
ǂ W*%' *,'& ' 0*' 3 ' $ 3*%' * '.*0 $ &*0+' Q ' ' 4>' 56 ' B > 5'
4%' #4@' ' 345' 2' : 4A 35)' C525 12A)' 8B 5 4)' ; 5' 2' G 5)' ? 35A '
B > 5)' 2 ' 2BB @> ' ; 9' 56 ' %% 15 ' 3' 2AA' 7 AA 5 8B > @)' 143 5 5 5 @'
16 >16 ' %+ǂ ! *0,+
6 ' 74>@)' 6 > ' 23@' 148 843A9' > 3@ > @' 143% 43) I' 23@'
48 5 8 'H'5 8 A5)\' 345' 3% 5A9'%4>' 56 ' 3)'A 5 >2AA9' 8B4>5 56' 2'
< 3@' 4%' 3 52;A 3 '>256 >)' 4>' 3 55A @3)' 7 6 3' 2' 56 3?' @456'
345' 523@' %2 5)' ; 5' 62< 56)' 23@' 5455 > 56)' 23@' ' 3' @23? >' 4%'%2AAD
3?' 3@' 56 ' 5' 2 A' 6 > ' 4BB4 56' 54' H' B 21 .I' H' #4@' ' 345'
56 '2 564>' 4%' 143% 43) I' 4>' 3 52;A 3)' 9' ; 5' 4%' B 21 KI' ; 9' 5625'
: >9' 4BB4 5 43' 35 8 25 3?) ' 5625' 5' ' 8 4 5A9'%4>' 7 235' 4%' B 21 ' 5625'
56 3?' ' @4' 345' 523@' %2 5)' ; 5' 2>' > 2@9' 54' %2AA' 354' @ 4>@ >' 23@'
343% 43' 5' *28 ' B 2< 56' 4 5' 7625' 5' 2 A' ; 5' 35 8 25 56' 2'
23@' 5 AA 56' ' BA2 3A9)' 5A 25' 56 ' 3 52;A 3 ' '56 ' %% 15' 4%' @ D
14>@)' 23@' 5625' 1435 35 43' ' 56 ' 8 456 >' 4%' 143% 43' H ' 4>'
76 >' 3:9 3?' 23@' 5>%')' I' 2 56' 6)' H' 56 >' I' 3143 52319)'
3 55A @3)' H' 143% 43' 23@' : >9' : A' 74><' I' 6 ' ; A@ >'
82< ' : >9' AA' 74><)' 76 >' 56 ' ; A163?' ' 345' A < ' 54' 523@)' ; 5'
56> 25 3 56' > 3)' 23@' ' > 2@ >' 54' @>4B' @47 3' 2?2 3' ; 9' 56 ' 5 8 ' 5'
' 7 AA' B' 3@' 9 5' 16' AA' 74><' @456' H' 3:9 3?' 23@' 5> % I'
: >' 8 2< .' 5' ' 14314>@' 43A9' 23@' 3 59' 5625' 8 2< 56' ?44@' 74><)'
23@' ; A@ 56' 5>43?' " 5' * > 2A 8' ; ' ; A5' H' 2 ' 2' 1 59' 5625' '
25' 3 59' 3' 5 A%.I' 23@' * > 2A 8' 7 AA' ; 'A < ' 54' 523@' 56 '%2 5 >)'
23@' 54' 523@' B' 56 'A43? >' -ǂ 0, % *0+
N' '/*$%' 6* 0' 8 -' &(0. '&0' 3 '.3$%.3 G' Q 1 R' 3' 5625'
4%' 4> 356' 748 3' 345' 43A9' B>4B6 @' 3' 56 ' 16 >16)' ; 5' 56 9'
@ @' 5 7 56' 56 ' 6 2@' 314: > @)' 162B' C ' 0' 6 ' A255 >' 3@ 1 319'
56 ' B4 5A ' 14>> 15 ' 56 > .' 23@' 56 ' %4>8 >' 6 > ' = A 8 ' /F'
%+ǂ 3& 4/+
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?E' /%) [' <%&*') / *' B"26' "#' "6' "4)
#2"&' "4' ["2' <%&*') ' 41) "' "4' "1(' [!
' #'%1 ' &%1') / '1.' / '&+*(#) "' -*' %' K2"Y
K / *)!' "2' +K'2')4%(!' (*)' / '&' %<.1"B(*60*') / %)'
) / *') / '10+') / %)' ' B2') *' 41) "' "4' %2*') / *'
<"&&%16&*1)+' "#) / *' "26
?J' 4)' '#'%1 ' &%1' -*' '01"2%1)!' (*)' / '&'
-*' '01"2%1)
' / *2*#"2*!' -2*) / 2*1!' <"5*') "' K2"Y
K / *+ !' %16' #"2-'6' 1") ') "' +K*%.' B') /'
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C ' *)' %(( ) / '10+' -*' 6"1*' 6*<*1)(' %16'
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' ,
' / ' 3%& A '% $%% .&*0' /F' 3 '-%*$ 3' 3 '0 . &/'* '
*$%' % $%% .&*0') &0 ' (($.3' ', 0/' 3 '% $%F
%.&*0'* ' 3 '4*,/ǂ F/' 3 '%$& ' H>' 0,' 00 %
3 % * ' > ' 0,'* ' 3 '.3 0)&0)'* ' 3 ' 3 ' 3 ((' 3 ' '
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o 6 -2*) / 2*1!' ' 6*<(%2*' 41 'U
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%'&'&'0'-%& ,'$0*' 3 ' *' - 8) PR' &9' 729' 4%
5 216 3?' 4>' B>4B6 9 3?) ' ; 5' 43A9' ; 9'+4 3 3?' 7 56' 56 ' 16 >16' 3'
B>29 >' 23@' B 2A 8 4@9' -+' 3& 4/+
M' 3 '^' . ' 3 ' 6*%,' * ' *,' *$' %* ' /*$']? X.+ ' 6 '
B4 5A ' 8 23)' 5625' 56 ' 4> 356 23 ' 7 > ' 345' 54' B> 5 3@' 54' 215' 3'
2' 8 233 >' 1435>2>9' 54' 6 ' 3+ 315 43)' 4>' 54' 56 ' 8 564@' 4%' 456 >'
16 >16)' 2 ' %' 56 9' 62@' ; 3' BA235 > ' 4%' 56 ' #4 B A)' 4>' 2 ' %' 56 '
B4 5A ' 62@' ? : 3' @ > 15 43 ' 54' 343 ' ; 5' 56 8 ' %+ǂ ! *0,+
W' T' (' 3& ' .80*6(,) ' Q1) mR' ' 123345' ; 5' 21<347 A @? '
5625' 8 9' B> 1 B5 ' 2> ' 56 ' 148 8 23@ 8 =5 ' 4%' 56 ' "4>@)' 23@' 3 1 '
2>9' 54' ; ' 4; >: @' -ǂ ! ((+
L' T' (' 3& ' 4 ' &)0*% 0+F= ' 5625' 7 AA' 345)' ' 62: ' 34' 84 >'
54' 29' 54' 6 8 K A 5' 6 8' 52< ' 56 ' %% 15 ' 4%' 6 ' 4; 5 325 ' 23@' 7 A% A'
?34>231 ' /(+
' T' .*. ' *' -%*-3 /' 0,' *%4&,' 0*' *' - 8' 6&3' *0)&& +A'
6 ' B4 5A ' 1431A @ ' 56 ' 764A ' ; 9' C64>5 3?' 56 8' 54' 3@ 2:4 >'
2>3 5A9' 2%5 >' 56 ' ? %5' 4%' B>4B6 9 3?)' 23@' 345' 54' %4>; @' 56 ' '
4%' 56 ' ? %5' 4%' 543?)' B>4: @ @' 56 ' %4> ?4 3?' > A ' 23@' @ > 15 43 '
7 > ' 4; >: @.' 5625' 4' 3' 56 >' B ;A 1<' 2 8 ;A ' 2AA' 56 3? ' > D
A25 3?' 54' > A ? 4 ' 74> 6 B' 8 ?65' ; ' B >%4>8 @' 7 56' 5%525' ; 148 D
3?' ?>2 : 59)' @ 1 319)' 23@' > ? A2> 59)' 76 16' 143@ 1 ' 84 5' 54' 56 '
?A4>9' 4%' #4@)' 23@' 56 ' @ % 125 43' 4%' @ ' 16 >16 ' $%8&

62B' , ' 6 ' B4 5A ' 6 > ' > BA ' 54' 56 ' 3 C5' G 5 8' 4%'
56 ' 4> 356 23 ' 1431 >3 3?' 56 ' 2; 4A 5 ' 1 >52 359' %' 56 ' %5 5 > ' 525 '
23@' 4%' 56 ' > >> 15 43' 4%' 56 ' ; 4@9 ' 48 ' * 7 6' 143: >5 ' 7 > '
B >BA C @' 7 56' 4; + 15 43 ' 2?2 3 5' 56 ' %4>8 >' ; 9' 56 >' 5 216 >)'
5625' 62@' ; 3' 4%' 56 ' 2@@ 12 12A' B2>5 ' 6 ' # 35 A ' 143: >5 '
7 > ' 25521< @' 7 56' @ %% 1 A5 ' 2; 4 5' 56 ' A255 >)' ; 9' 56 ' B 1 A25 43 '
4%' 56 >' B6 A4 4B6 12A' 5 216 > ' 6 ' B4 5A ' 52;A 6 ' 56 ' 5> 56'
4%' ; 456' 56 ' B4 35)' B43' 56 ' % 5' 4%' 6> 5- ' > >> 15 43)' A29 3?'
@47 3' 56 ' : @ 31 ' 5625' B>4: ' 5' 6 ' @ ; A %' 4%' 2' % 5 > ' 525 '
' 55 >A9' 3143 5 35' 7 56' 56 ' ; A %' 4%' 6> 5- ' > >> 15 43)' 23@'
7 56' 56 ' 325 > ' 23@' @ ?3' 4%' 4 >' ; 2B5 8 2A' B>4% 43)' 23@' @ D
233 A ' 56 ' %2 56)' 23@' %> 5>25 ' 2 ' 56 ' %% > 3? ' 4%' 6> 5 23' B 4D
BA ' 6 ' ' 2AA ? @' 2?2 3 5' 56 ' 2@@ 18 12A' 6> 5 23)' 54' : > ' H>ǂ
6 3' 6 ' 23 7 > ' 56 ' B6 A4 4B6 12A' 4; + 15 43 ' 2?2 3 5' 56 ' > >D
> 15 43' 4%' 56 ' ; 4@9)' 54' : > ' N0)' 7 6 5 ' 6 ' 5 >3 ' 54' 56 ' * 7 6' 4; D
+ 154> ' 2?2 3)' 6 7 3?' 56 ' 3 1 59' 4%' ; A : 3?' 56 ' B4 35)' %>4 8 '
5A ' 232A4?9' 4%' 56 ' % > 5' 23@' 143@' @2 8)' 54' : > ' 0/' 6 3' 6 '
@ 1A2> ' 56 ' ?A4> 4 ' 1623 ? ' 7 6 16' 56 ' ; 4@ ' 4%' ?44@' 6> 5 23 '
62AA' 3@ >?4' 25' 56 ' > >> 15 43)' 3' 4>@ >' 54' G 2A %9' 56 8' %4>' 5A '
6 2: 3A9' 23@' 8 8 4>52A' 525 ' /(+
, >' ' T' 3 ')* - (63&.3' '-% .3 ,' $0 *' /*$ ' 2>5 1 A2>A9'
@ ' @415> 3 ' 4%' 56 ' > >> 15 43' 4%' 56 ' ; 4@9)' 7 6 16' 72Q' Q' ?> 55'
B4 35' 4%' 5625' #4 B A' $%8& ǂ)
A?

/2'+)')/*' #'2+)#24')+' '%#)*2B%26')/* ')/%) :L' %2*' /2'+)'+' %)' /'+'<"&'10
9C7 /*1'.* 3')/*' *16!' B/*1' /*' +/%((
/%5*' 6*('5*2*6' 4K')/*' .'106"&')"' "6!'
*5*1')/*' %)/*2' B/*1' /*' +/%((' /%5*' K4)'
6"B1' %((' 24(*' %16' %((' %4)/"2') ' %16'
K"B*2
9:' "2' /*' &4+)'2*'01!')'((' /*' /%)/' K4)'
%((' *1*&'*+' 416*2' /'+' #*/)
9E' /*'(%+)'*1*& ' +/%((' -*' 6*+)2" *6'
& ' 6*%)/
9I' "2' /*' /%)/''K4)' %((')/'10+' 416*2'
/'+' #**)' 4)' B/*1' /*' +%')/!' %((')/'10+'
%2*'K4)'416*2'3& ' & '& '&%1'#*+)'/%)' /*''+'
*R<*K)*6!' B/'</'6'6'K4)' %((')/'10+' 416*2'
/'&
9J' 16'B/*1'%((')/'10+'+/%((' -*'+4-64*6
41)"' /'&!')/*1' +/%((')/*' "1' %(+"' /'&+*(#' -*' +4-$*<)'41)"' /'&')/%)' K4)' %((')/'10+' 41' ?@'
6*2' /'&!')/%)' "6' &% ' -*' %((' '1' %((
' (+*' B/%)' +/%((')/* ' 6"' B/'</' %2*'
-%K)'D*6'#"2')/*'6*%6!' '#')/*'6*%6'2'+*' 1")'
%)' %((' [B/ ;%2*')/* ')/*1' -%K)'D*6'#"2')/*'
6*%6' [
? ' 16'B/ ' +)%16'B*' '1'$*"K%26 ' *5*2 '
/"42' [
' JA' ' K2")*+)' - ' ' "42' 2*$"'<'10' B/'</' ' ' '
' /%5*' '1' /2'+)' 3*+4+' "42' "26!' ' 6'*'
6%'(
?9' #' '%#)*2')/*' &%11*2' "#' &*1' ' /%5*' ' 2!
#"40/)' B')/' -*%+)+' %)' K/*+4+!' B/%)' %6'
5%1)%0*)/' ')' &*!' '#')/*' 6*%6' 2'+*' 1")'] ZS>U
(*)' 4+' *%)' %16' 62'1.' #"2')"' &"22"B' B*'
6'*

FN' 3 0' 3' 3' 0,' Q1 ' 625')'56 ' 3@' 4%'56 '74>A@)'
76 3' 6> 5'7 AA' @ A: >' B' '<3?@48' 54' #4@' 56 ' '256 >'.'
328 A9' ' 8 @254> 2A' <3?@48)' 76 16)' 2 ' @254>)' ' > '
1 : @'%>48' ''256 >.' 345' '325 >2A' 23@' 35 2A'<3?@48)'
76 16)' 2' #4@)' '62@' 7 56' ''256 >'%>48' 5 >3 59.' 56 ' 62AA'
3 : >' ; '@ A: > @' B)' %4>'4%'56 ' '<3?@48' 56 >' 62AA' ; '34'
3@K ; 5'25'56 ' 3@'4%'56 '74>A@)' 6> 5'62: 3?' ;@ @'2AA' '
23@' '16 >16-' 3 8)'23@' B 5'@473' 2AA' > A)' 2 564> 59.' 23@'
B47 >' ;456' 3'56 '74>A@' 23@' 3'56 '16 > 6)' ' 62AA' @ A: >' B'
' 8 @254> 2A' <3?@48'54' ''256 >)' 23@' > ?3' 34' A43? >' 2 '
@254>)' 23@'2 '@ B 5 @' ;9' ''256 >.' ; 5' ' 62AA' 5 AA'> ?3)'
5 >32AA9' > ?3)' 2 ' #4@' G 2A' 56'56 ' ''256 >.' %4>' '<3?@48'
'23' : >A2 5 3?'<3?@48)' 23@' '@48 3 43' 3@ > 56'54' 5 >32A'
2? ' $%8& ' 6 '% AA' 823 % 525 43' 4%'5625'@48 3 43)' 76 16'
6> 5'3' '6 823' 325 > '21G > @)' ;9'@9 3?)' 23@' > 3?)' 23@'
? : 3?'2?2 3)' %4>'76 16' 823 % 525 43' : >9'456 >'215'4%' '> ?2A'
2 564> 59' '4B 3 3?'56 '729)E' 7 AA' ; ' 3'5625'64 >'76 3' ' 62AA'
H'148 ' 7 56'56 '6BA9'23? A '54' 5' B43'56 '56>43 ' 4%' ?A4>9)'
23@' 2AA' 325 43 ' ; 3?'?256 > @' ; %4> ' 8)I' 62AA' 35 31 '56 '
7 1< @)' ;456' 8 3'23@'@ : A)'54' : >A2 5 3?' B 3 68 35)' ; 5' ; D
547' 43'56 '> ?65 4 'A % ' 5 >32A' %5 >'76 16)'56 ' 3@' 4%'56 '
764A' @ B 3 25 43' ; 3?'347' 21148BA 6 @' ' 62AA' H'@ A: >'
B' '<3?@48 I'4%'?>21 ' 9'54' #4@)' : 8'56 ' '256 >)I' 3' 764 '
<3?@48'4%'?A >9' ' H' 62AAI' 5 AA' 9'> ?3)I' 7 56' 8' 23@' 56 '
4A9' B>5)' 4: >' ' 2 35 ' 23@' 23? A)' H' %4>' : >' 23@' : >)I'
:'C ' /0' 4-' *8 %+
" 5)'7 ' 64 A@' 82?3 ' 5625' 6> 5' 64 A@' : >'1 2 ' 54' ; '
! 3?.'56 '231 35' '256 > '25' 43 5235 34BA)' 3'56 '9 2>' L/)'2@@ @'
564 '74>@ '54'56 ' 1 3 ' > @' H' 764 '<3?@48'> 2 '62: '34'
3@)I' 2?2 3 5'56 ' 6 > 9' 76 16' 56 3' 3 7A9' 2>4)' @ 39 3?' 56 '
5 >3 59'4%'56 '<3?@48'4%' 6> 5' -' % *0+
F0' W*%' 3' $ '% &)0' &((' 3' 3 3' -$' ((' 0 & ' $0, %' 3& '
+J' 4'56 ' B >B4 ' 72' 56 'B>48 ' 82@' 54' 6> 5)' '1C)'
5625' ' B>5 2A' <3?@48' 43' 756' 64 A@' A2 5' 4' A43?)' 5 AA'
#4@' 62@' ;>4 ?65'2AA' 56 '74>A@'54' ; ' ;+ 15'54' 8 ' %+' ! E
*0,+
FM' 3'(' 0 /' & ', 3+N 6 16'2114>@ 3?A9' 62AA' 25'
56 '5 8 ' ; ' 3 : > 2AA9' @ 5>49 @' ;9'56 ' 3 : > 2A' > >> 15 43)'
2 '4%'56 '+ 5)' 4' 2A 4' 4%'56 '7 1< @' %+' ((+
FW' W*%' 3'3 3' -$' ((3&0) 'Q ' ' ' : 'M.' 23@' 56 '
35>4@ 154>9'345 '%>48' 44A ' B43'5625'B 263
T ' $' 63 0' 3' & 3 ' 625')' 76 3'56 ' 2A8 5' 256'
%+' ((+
FL']T' 3 0' 3 ((3' *0' (*' 3& (N "29'@473' '<3?A9'
%% 1' 3'?4: >3 3?' '16 >16.' 23@' 2' 823' \ ' ; ' ;+ 15' 354'
8'5625'B 5'2AA' 56 3?' 8 @ >' 8)' 5625' #4@)I' 56 ' '256 >)' 43)'
23@' 4A9' #64 5)' H' 829' ;)\' 7 564 5' 56 ' 35 >: 35 43' 4%' 2' D
@254>)' H' 2AA' 3' 2A; I' ; 9' 2' % AA' 148 8 3 125 43' 4%' 8 A%' 54' 2AA'
' 2 35)' 23@' 23' 35 8 25 ' 3 43' 7 56'56 8 ' % +' 3& 4/' 23@' '
! *0,+
' ('%'3,' 3 ((3 /'@4+' 6 ' B4 5A '> : >5 '5Z' 56 ' ;+ 15
4%'56 'F @' : >)' 2AA' 56 ' 35 >8 @ 25 ' B2 2? ' ; 3?' 3' 2' B2> 3 '
56 ' %+' ! ' *0,+
' # ' A ' ' ']BN 625')' 764
2> ' ; 2B5 U @' 3'56 '%2 56' 23@' B>4% 43)' 2 '4%'456 >' 2>5 1A '4%'56 '
> @)' 4'4%'56 ' 3' B2>5 1 A2>' 4%'56 '> >> 15 43' 4%'56 '@ 2@)' 23@'
143 G 35A9' 3' 64B '4%'56 '> >> 15 43 ' ' %'56 ' B4 5A '62@'
2@)' '%4>'564 '28 43?' 94 ' 3' 56 '16 >16'4%' ' 2> '
; 2B5 U @' B > 43)' 23@' 9 5' @ 39'56 '> >> 15 43' 4%'56 '@ 2@)' '
74 A@' @ 823@'4%'56 8)' 769'56 9'62: ' 3'56 ' >' ; 2B5 8' 82@' 2'
B>4% 43'4%' ; A : 3?'56 '2>5 1A '4%'56 '> >> 15 43'] 769'7 > '
56 9' ; 2B5 U @' 3'56 '%2 56)' %'56 9'347'> 34 31 ' 5'^ 4' ; '2' ; 2B '
5 U ' 6> 5 23)' 23@' 9 5'54' @ 39'56 '> >> 15 43)' ' 2'%A25'23@'BA2 3'
1435>2@ 15 43 ' F ' 5 ' 6 ' 2BB 2> '54' ; '56 '
3@4 ;5 @' 3 '23@' @ ?3'4%'56 'B6>2)' 564 ?6'56 > ' '2' @ %D
%1 A59' 3'56 'B> 1 '143 5> 15 43'4%'56 '4> ? 32A' (
' > ' $ ' # ' 69'@4'7 '
6> 523 ' CB4 '4 >' : >9'A : '54'1435 3 2A' @23? >'%4>'56 ' 2<'
4%'56 '#4 B A)' %'56 > ' ; '34'> >> 15 43'54'2'% 5 > ' 525 '4%'> D
5> ; 5 43'^ F ' / '
/'*' ' $ ' Q1 *' 56 >' ' B>45 5' ; 9'2AA'
5625'+49' 76 16' '62: ' 3' 94 >' 143: > 43' 54' 6> 5 23 59.' 4>' '
B>45 5' ; 9'2AA' 5625' > +4 1 3?'76 16' '62: ' 3' 148 843' 7 56' 94 '
23@' 2AA' 6> 523 ' 3@ >' 56 ' 6 2: 5' %% > 3?)' %4>'56 ' 2<' 4%'
6> 5'* '4 >'"4>@' 5 F '/
T T' i' ' 0' '62>@A9'B2 '2'@29' ; 5' '28' 3' @23? >'4%'
@ 256)' %4>'56 ' ,2< ' 4%'89' ,6> ,523' B>4% 43' (,
F' * ' # '
I 0' A2: ' 23@'56 ' ?> 25 5' 82A %2154> ' 7 > ' 48 5 8 '
143@ 83 @'54' A ?65'7 56' 7 A@' ; 2 5 ' 3' 56 ' 28B6 56 25>)' 2 ' 2'
B 3 68 35'%4>'56 '84 5'6 34 '1> 8 ' #>45 '23@' 456 > =' 3D
5 >B> 5' 56 '74>@' 8 52B64> 12AA9)' 2 ' %' 5' 2 A' B4<' 4%'6 '
1435 5'7 56' 8B4 '23@'% >414 ' 8 3)' 764' 2> '4%5 3' 148 B2> @'
54' 7 A@' ; 2 5 ' ; 3' 2114 35' 4%'56 >' 2:2? ' 23@' ; > 5 6' 8233 > K
56 '> 2 43'4%'56 ' 35 >B> 525 43')' 5625' 56 > ' '34' 8 35 43'%4 3@)'
3' 56 ' 15 '4%'56 ' B4 5A '4>'\ A 76 >)' 4%' 56 '148 ; 25' 4%' 56 '
B4 5A '7 56' ; 2 5 ' 47 : >)' 31 '56 > ' ' CB> '345 1 '6 > '
52< 3'4%'56 'BA21)' 76 16' 72' 56 ' 1 3 '4%'56 '1@ 8 ; 25.' 31 ' 3'
456 >'BA21 '56 > '7 > '345'7235 3?' : >9' ; 55 >' 3 8)' 54' 4BB4 '
56 ' B4 5A .' 23@' 31 ' 5'72 ' 345' 3 2A'%4>' 56 ' B>4% 4> '4%'
56 ' A 523' %2 56'54' ; '12 5' ; 9'59>235 '54' 7 A@' ; 2 5 .' 5' 8 '
84 5' 14>> 15' 54' 35 >B> 5' 56 ' B2 2? ' 4%' 2' 148 ; 25)' B>4B >A9' 4'
12AA @)' 76 > 3'56 ' B4 5A '%4 ?65'7 56' ; 2 5 ' 3'56 ' 56 25> ' 25'
B6 ' 625'56 '72 ' 2' > 2A)' 345' 2' 8 52B64> 12A)'
148 ; 25'7 56' ; 2 5)' 829' ; '14AA 15 @'%>48' 56 ' 7625'56 ' B4 5A '5 AA '
56 ' 4> 356 23)' F' 4>' ' L.' 23@' %>48' 56 ' B6>2)' H' 8233 >'
8 3)I' 76 16' 8 23' 56 ' ; 2>; 2>4 '1 548' 4%'56 ' 8 3' 4%' 5625' 2? '
6 '%?65 3?)' 6 > '2AA @ @'54)' 3' 2AA' B>4 ; 2 ; A 59' 62BB 3 @' 3' 48 '
5 8 A5)' 4%' 76 16' 56 > ' '34' 8 35 43' 3' 56 ' 6 54>9' 4%' 56 ' 15)'
B> : 4 ' 54' 56 ' > 45' 4%' 8 5>)' > A25 @' 3' 15 ' C C ' F
)
33 ' ' '

334 9?' / *' 02 %<*' "#' "42' "26' 3*+4+' /2'+) P' / *' #'2+)' -& (') "') / *' "2'1) / '%1+' B%+'
! 4 ' \ - ' "4 B2')) *1' #2" &' / '('KK" - ')*K / %1%+!'
9C' ' ("5*' '*' B') / ' "4' %((' '1' / 2'+)' %16' "2)41%)4+!' %16' < / % . 4+!' %16'
3*+4+' & *1 ' & ") / *4+

+ ' ' ' ' ' ' ' ' '(' 5' 2556 ' 3@4%56 ' B 5A ' 82< '34B24$4%@ '2B4 54A12A 7>5 ?)
72'> 2AA9 7>55 3'%>48' B6 ' 6 'B4 5 1>B5 '4>' ; 1>B5 43 23@ 2> '345 25 2AA 5 8 '54 ; '@ B 3@ @ B43' *&B' +

6 '%4AA47 3?' 62B5 > '%>48' 6 ' ' > 5' B 5A '54'56 ' 4> 356 23 ' 2> '2BB4 35 @%4>' >4B >' " 43)' '2' 35 43 '4%' 1>B5 > '%4>
B 5A)' 43' 3@29 '23@ 4A9@29 K

2	: >' NT' L)	/ L56' 3@29' 2%5 >' > 3 59)	c	)	B 5A
23	T ' / T 0)	@' 3@29' 3' @: 35)	+	)	554
21	T 'FNT FW)	B5 2? 82' 3@29)'	+	)	554)
1	`>' / T /)	J56' 3@29' 2%5 >' > 3 59)'	+	)	554
12	T ' / WT N)'	6 > @29' ; %4> ' 2 5 >)		-2	554
122		6 5 43@29)	L		4>3 3?
122	: >' / T / /)	/ 56' 3@29' = >' > 3 59)			B 5A
1222	)' ' L	e 3G 2? 82' 3@29)			554 '
123	: >' / T)	6 5 43@29)'	'		: 3 3?
13	T' / T / /)	/ / 56' 3@29' 2%5 >' > 3 59)			B 5A
13		2 5 > @29)'	' ' + ' G		: 3 3?
13	: >'F T 0L)	& > 2A' >: 1)'	'	)	" 43

$(3& 3 3 *%&0 3& 0

*RPS% < / 42< / " # " 6 B / '< / ' + %) "2'1) / ! U
B') / %'( ) / * +%'1)+ B / '< / %2* '1;%((< / %'%
9 2%<* 4 ')" " 4 %16 K*%<* #2" & " 6
"42 %) / *2!;%16 %*) / * "26! 3*+4+
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? (*++*6 3 "6! *5*1) / * %) / *2 " #
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)'"1!) /%) B * &% - * %-(*)" <" & #"2)) / * &
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B / *2*B') / B * "42+*(5*+ %2* <" & #"2)*6 " #
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> "2 %+) / * +4##*2'10+ " # /2'+) %-"416
'1 4+! +" "42 <"1+"(%)'"1 %(+" %-"416*) / -
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E 16 B / *) / *2 B * - * %##('<)*6! & & #"2
3 >) "42 <"1+"(%)'"1 %16 +%(5%)'"1! B / '< / '+
; Q *##*<)4%(')") / * *1642'10 " #) / * +%&* +4#Y
#*2'10+ B / '< / B * %(+" +4##*2 "2 B / *) / *2
B * - * <" & #"2)*6! & & #"2 "42 <"1+"(%)'"1
'%16 +%(5%)'"1
I 16 "42 /"K* " # "4 & +)*6#%+)! .1"BY
'10!) /%) %+ * %2* K%2)%.*2+ " #) / * +4##*2Y
'10+! +" 3 ((/ 4 %(+" " #) / * <"1+"(%)'"1
; J "2 B * B"4(6 1")! -2*)/2*1! /%5* "4

'01"2%1) " # -42)2"4-(* B < / <%&*)" 4+ -
'1 +'%!) /%) B * B*2* K2*++*6 "4) " # & *% *"
+42*!%-"5* +)2*10)/! '1+"&4< /) /%) B * 6*Y
+K%'2*6 *5*1 " #'(#* ' k
L 4) B * /%6) / * +*1)*1<* " # 6*%)/
'1 "42+*(5*+!) /%) B * +/"4(6 1"))24+) '1
"42+*(5*+! -4) '1 "6 B /'< / 2%'+*)/) / *
6*%6 ; ! Z
A /" 6*('5*2*6 4+ #2" & +" 02*%) %
6*%)/!%16 6")/ 6*('5*2 '1 B /" & B*)24+)
)/%) /* B'((*) 6*('5*2
AA * %(+" /*(K'10)"0*)/*2 - K2% *2
#"2 4+!)/%) #"2)/* 0'#)4 *&* , 4K"1 4+-
)/* &*%1+ " # &%1 K*2+"1+)/%1.+ &% - *
0'5*1 - &%1 "1 "42 -*/%(#
A9 "2 "42 2*$"'<'10 '+)/'+!)/*)*+)'Y
&"1 '" # <"1+<'*1<*!)/%) '1 +'&K('<)
%16 0"6(+'1<*2') ! 1") B')/ 6*+/(B'+
6"&!-4) -)/* 02%<* " # "6! B* /%5* /%6'7
"42 <"15*2+%)'"1 '1)/* B"2(6! %16 &"2*
%-416%1)(')" "4 B%26
A? "2 B* B2')* 1"1* ")/*2)/'10+ 41)"
"4!)/%1 B/%) * 2*%6 "2 %<.1"B(*60* $
%16)24+) * +/%((%<.1"B(*60* *5*1)"
)/* *16'$!
AC + %(+" * /%5* %<.1"B(*60*6 4+ '1

T T $0&* 3 .3$%.3 ;/ *, Q1 R '56 '345 '43 / 4> F
T T &O ((.3 & 6 B>4:31)4% 76 16 4> 356 72 '56
8 5>4B4A '4> 16 %5473 %+ ((
>+ T 3 & %&0) * 3%& C 625)4 > %% >3? %4>)4>43
2114 35 4%) 6> 5 % + ! *0, 23@ ((
M T %*3&.3& . ' # 625)76 16 %% 15 2AA9 7>4 ?65
-+ ! ((+ 6 B4 5A 29)5625 6 %% >3? 23@ 2%A 15 43
62: 62@ B43 56 4> 356 23 56 ?44@ %% 15 4% 314 >2? 3?
56 8 54 %% >B25 35A9 2%5 >6 C2 8 BA K 23@ 5625 6 ;A 3?
23@ 148 %4>5 8 4 8239 2>? 8 35 54 56 8) ;> @ B 3@ 3?
5 2@ A9 23@+49% AA9 B43 56 28 3% 3 5 7 @4 8 23@ B47 >
2 6 @ @ /(+
L T *$% %* 3(63&.3 * $ &O & = 239 35 >B> 5 >
6 > % >54 56 148 8 45 43 >2 @ 2?2 3 5 5 2 A ;9 8 5>
25 B6) 15 C C FM)54 56 3@ & 5 7 @4 345 > 2@ 5625 3
5625 148 8 45 43 239 623@ 7 > A2 @ B43 56 B4 5A)4>5625
6 %% > @ 239 56 3? 56 > %4> 62@ 34 4112 43 %4>5 56
5>43? CB> 43)76 16 6 3 56 56> : >)23@
76 16 8 >256 54 ?3 %9)5625 6 72 3 @23? >4%; 3?54>3
3 B 1 ;9 56 7 A@ ; 2 5 7 56 76 16 6 %4 ?65 25 B6 43
23456 4112 43 8 35 43 @ / 4> C: F 56 345 56 >
% + 3&4/23@ 5 .80&)5+
J $ 6 3 , 8 0 0. * , 3 &O *.% (C 82@ % A
> 1<43 3? 4% 89 B> 35 @ 256) 2 55 >9 3 : 52;A -+ ! ((+
9 6 35 31 4%@ 256I 5625) 76 16 56 B4 5A)76 3 4>@ > @
54 %?65 7 56 7 A@ ; 2 5)B>434 31 @43 6 8 A 3 6 473 8 3@
%+ 5 .80&)5+
// T 3 *%[3)& 4 *6 , $-*0 $ Q1 R P 625)56
?>21 4 @ A: >231 %+ ((6 3 6 3 2 94 2A
1435>;5 5472>@ 89 2% 59 23@ B>45 15 43) 94 829 2A 62:
56 BA 2 > 4%> +4 1 3? 23@ ? : 3? 5623< %4> 5 2A43? 7 56 8
/(+
/F W*% *$%% 7*&.&0)& 3& Q1 + 6 1433 C 43 4% 56 7 56
56 %4>8 >: > 8 54 ; 3@ 56 > ?44@ > 2 43 769 94
64 A@ 56 B>29 %4>)764 62: 215 @ 7 56 16 31 >59 54D
72>@ 94)23@ 4 8 16 54 94 >2@:2352? %+ 3&4/+
T+ 3 & *0/* * *$% .*0 .&0. Q1 R 6 + @?8 35 4% 2
823 473 6 2>5 4%?> 25 > > ?2>@ 5623 56 1 3 > 4% 2A 56
8 3 3 56 74>A@ ; @ & 55 > 56 74>A@ 64 A@ 143@ 83

%4 >473 6 2>5 21G 5 .5623 5625 4 >6 2>5 64 A@ 143@ 83
)23@ 2AA 56 74>A@ 21G 5 6 4 >+4 1 3?)I 256 5
2 A) 9 56 5 5 8439 4% 48 143 1 31 I 6 2BB>4;25 43 4%
>3 3 829 ? : 48 211 43 54 56 > +4 1 3?) 56 456 >; 3?
BB4 @.; 5 56 82 3 4% 5 A 56 3 H 56 5 5 8439 4% 56 143D
1 31 I 6 56 6 ?6 5 5>; 32A 3@ >6 2: 3K; 5 345 2;D
4A 5 A9 56 6 ?6 5. 56 > 43 3 6 2: 3 2;4: 5 5 2 A)
764 564 ?65 5 2% %4>6 8 54 2BB 2A 56 56 >%>48 56 3+ 5 1 3D
> 4% 3)9 5 @ > 5 345 56 3< 5 2% %4> 6 8 54 > 5 6 >) 5
2BB 2A 56 %>48 5 54 2 6 ?6 >14 >5) 54 56 + @?8 35 4% 56 ?> 25
#4@ 5 72 H 2 >9 82AA 56 3? 7 56 6 8 54 ; + @?8 35)- / 4> : . 4 A43? 2 6 H <3 7 3456 3? ;9 6 8D
A%)I 4 A43? 2 6 473 6 2>5 143@ 83 @ 6 8 345) 6 > ?2>@ @
345 8 16 56 1 3 > 4% 8 3 (5 @ > 5 6 345+ 5 %9 6 8 A%
3 56 21G 552A 4% 6 473 6 2>5 <3 7 56 > 72 8 16
;6 3@3 23@ 1 5% A3 3 56 6 2>5 4% : >9 3% A 823.23@
5 7 > 34 7 @48 54 %5 5 54 5625 76 16 8 ?65 %2 A 74 A@
62: > 14 > 56 > %4> 54 2 6 ?6 > 23@ 23 3 >> 3? * @?)764
3 56 > 14 A@ @ 1 :)34> 14 A@; @ 1 : @K 23@ 5625 72 56
"4>@ H + @? 345 8 3 473 A%)I 256 6)H; 5 5A 25
+ @? 56 8 56 "4>@ I -+ 0, % *0+
4/ 3)% . * #4@)R 3%A 31 3? 8 54 @ B 16
%A 6A9 7 @48)23@ 32;A 3? 8 54 B >%4> 8 8 >21A %4> 56 B>4D
B2?25 43 4% 56 #4 B A %+ !(+
]&, *% 4$0, 0(/ * /*$F6 %,<= 6 B47 >% A 4B >2D
5 43 23@ ? %5 4% 56 4A9 #64 5 8 54 62: ; 3 84 > 2; 3D
@235A9 C >1 @;9 56 B4 5A 3 56 4> 356 23 16 >16 %+
3&4/+ A 4)6 74>< 3? 7 56 6 473 623@ %4> 6 82 35 D
3231 2843? 56 4> 356 23) 15 <: . / 4> C /0) 76 16
6 @ @ 345 @4 : >9 76 >)8 5 143: 31 3? B>44% 4% 7625
6 6 > 29 %+ *, ,%&,) +
/ W*% 6 6%& 0*0 * 3 3&0) $0 */*$ Q1 R 625)7
62: 34 456 >@ ?3 4> 8 23 3? 3 7625 7 7 > 5 354 94)5623
7625 A 4B 3 23@ A ? ;A 3 \ 7625 94 > 2@)4>I 5623 7625 9 P
:3 21<347A @? I 54; 4K H 23@ 5> 5I 62AA 2A729 4
;62: 8 9 A%5625 9 94 62AA 21<347A @? I 56 28 8 BA 1 59
23@ 31 > 59 3 8 H : 3 54 56 3@ I %+ ((+
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H, 6*)*2&'1*6)/'+B')/& +*(#!)/%) Z, B"4(61")<"&*%0%'1)"' 4'1'/*%Y 5'1*++ ;

9' "2' '#' &%.*' "4' +"22 !' B/"' '+' /*')/*1')/%);&%.*)/' &*' 0(%6!'-4)'/*' +%&*' B/'</'+' &%6*'+"22 '-' &*' [

?' 16' B2")*')/'+;+%&*'41)"' "4!'(*+)!' B/*1' '<%&*!' '+/"4(6'/%5*'+"22"B' #2"&')/*&'"#' 63* ' '"40/)')"' 2*$"'<*'/%5'10' <"1#'6*1<*'1' "4'%((!')/%)'& '$" '+' 3 7* /' "#' "4'%((

C' "2' "4)'"#'&4</'%##('<)'"1'%16'%104'+/' * '/*%2)' B2")*'41)"' "4'B')/'&%1 ')*%2+' 1")')/%)' *'+/"4(6'-*'02'*5*6!'-4)')/%)' *' &'0/)' .1"B')/*' ("5*' B/'</' '/%5*' &"2*' %-416%1)('41)"' "4 :' 4)'#'%1 '/%5*' <%4+*6'02'*#!'/*'/%)/' /")' 02'*5*6' &*!'-4)'1' K%2)')/%)' ' &%' 1")' "5*2</%20*' "4'%

M' %%1 35'54' 16' 2' 823' i=56 ' $B ' 3 68 35)'76 16' '* '&% 8 ,'4%'8239 I' "')/%)' <"1)2%2'B'+*' * " 0 \'2%)/#*2' "'2!' ±)"'#"20'5*' 5 '%16' <"&#"2)' 3& '(*+)' K*2 /%K+' +4</'%' "1*'+/"4(6'-*' +B% "B*6' 4K' ' B')/' "5*2&4</'+"22"B

L' 6 > %4> ' '; 16'94 '5625'9 '74 A@' 143% 8' A4:'5472>@'6 8

L' "2')"')/'+' #*16' %(+"' 6'6' 'B2')*!')/%)' '&'0/)' .1"B')/*' K2"'"#' "#' "4!' B/*)/*2' *'-*'"-*6'*1)'1'%((')/'10+

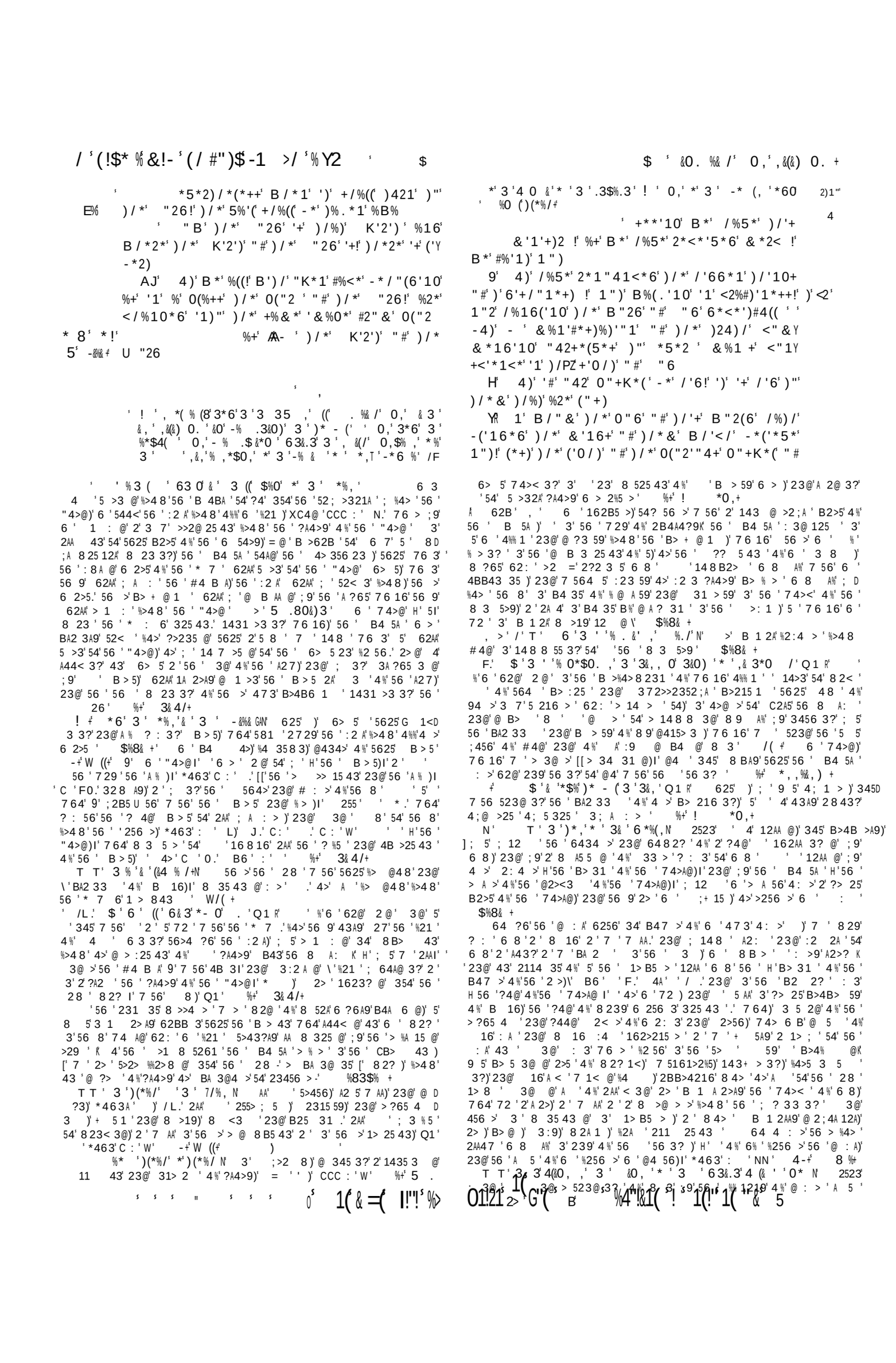
A' "'B/"&' *'#"20'5*'%1 ')/'10!' '*% A)&' '%(+"'#"2' '"' '#"20%5*' %1 ')/'10!')"' B/"&('#"20%5*'&'#"2' "42' 8H *%) ' ' '&' ''1')/*'K*2+"1'"#' /2'+)' ± [

AA' *+)' %)%1'+/"4(6'0*)'%1'%65%1)%0*' "#'4+'#"2' B*' %2*'1")'&)0*% 0'*' '/'+' 6*Y 5'<*+

A9' 42)/*2&"2*!'B/*1' '<%&*')"' 2"%+')"'-% .3' /2'+);+' 0"+K*(!'%16'%' 6""2' B%+' "K*1*6'41)"'&*'"#')/*' "26!

A?' '/%6'1"'2*+)' '1'&' '+K'2')!'-*<%4+*' ' #"416'1")' ')4+'&' '-2")/*2' -4)'%.'10

62B' ' 6 ' B4 5A 'B>41 @'54' 6 7'56 '> 2 43'4%'6 '345' 148 3?'54' 4> 356)' 4' 443'2'6 ' 35 3@ @)'54'; '6 '> 2A'1A 8 319' 5472>@'56 ' 123@2A4 ' 4%% 3@ > ' ' CB> @a' 6 '5 3@ >3 ' 5472>@' 56 8'2AA)'@ ' > '5625' : 3'56 ' 31 5 4 'B > 43' 64 A@' ; '> 1 : @' 354'56 '16 >16' 2?2 3' B43' 6 '> B 35231)'23@'@ D 1A2> ' 6 ' 473' 31 > 59)' 23@' 56 ' @%% 1 A5' 162>?' 4%'56 ' B4D 54A 12A'4%% 1 .' 7 56'2'> %A 15 43' B43'56 >' 3 7'5 216 > '5625'4BD B4 '6 8 ' /(+ , >' /' T '&0' 3 '&0 #C 625')' 4' 2 '54' 82< '94 ' 2@)' %' ' 14 A@'B4 ;A9'2:4@' 5 ' FE>' 3& 4/+ F' T '63*'&'3' 3 0' 3 ' 8 3' ')(, = 5' 2 A-' 16 %'+49' 3'6 ' %% > 3?' 7 > '6 ' 143: >5)'%4>' 764 ' 2A:25 43-' 2< '6 ' %% > @' -+' W ((+ 4$' 3 ' '63&.3'&' , '*%%/'4/' ' 6 ' B4 5A) <347 3?'5625'56 ' 31 > 'B2>5'4%'56 '16 >16' 74 A@' ; '82@' 4>>9' ;9'6 'B 3 6 3?'56 >' @ 4; @ 35';> 56> 3g' 7 6 @' 345'54' @ D 5> '6 '%> 3@ ' ;9'B 3 6 3?'6 ' 3 8 ' >'5 .80&)3 + H+' 0,' '6%*' 3&' '$0*'/*$'Q1 R' '62:'56 > %4> '7>5D 5 3'94 '89'8 3@' ; %4> 623@)'5625)' ;9'2'5 8 A9'> %4>8 25 43'4%'56 ' @ 4>@ >' %'94 >' 16 >16)' '8 ?65'345'62:'@ '5>4 ;A'23@': CD 25 43'4%'B 3 6 3?' 3 5 2@'4%'143?>25 A25 3?)'76 3' '148 '54': 5' 94 ' /(+ /'7*/'&' 3 7*/'*' '/*$ 56 >'56 ' B4 5A' ' B 2<D 3?' 4%'56 ' 31 > 'B2>5'4%'56 ' 4> 356 23' 16 >16)' 4>'56 ' 74>@' H'2AA!' 8 5';'52< 3' 3'2'G 2A% @' 3 ' >'5 .80&)3 + N' T '0*' 3 ' / ' 3*$(,' 4')%& ' , ' ' *'4 5'4%'239'BA 2 >' 5625' '52<'54'1 3 >'4>'2%%A 15'94 ' >' ! *0, >+' $'& '0/'3 ' '. $,')%& 'Q1 R' 6 ' B4 5A '6 >'2AA @ ' 54'56 ' 31 5 4 'B > 43)'56 '2 @ 4>'4%'2 '56 ' 2@3 '23@' : D > 59 ' >' ! *0,+ >' "41< ' : >9' 7 AA' 4; >: ' 56 ' ?> 25' 5 3@ >3)' 76 16' 56 ' B4 @ ' '54' 56 '4%% 3@ >.' 6 '3 : >' 431 ' 8 35 43 ' 6 '328)' 8 >'@4 ' 6 '6 > ' 4' 8 16' 2 ' 8 35 43' 6 '1> 8 .' ; 5' B 2< '4%'6 8' 3'56 '84 5' 3@ % 3 5 ' 8233 >)'5625' 72 '143 5 35' 7 56'? : 3?' 16' @ > 15 43 ' 2 ' 6 '12 '> G > @' > ' *, ,%&,) + 3 '3 3'0*')%& ' ,' '4&,'&0' - %' 28 A9)' 3'> B 15 43A9)4%'564?'5625'@ % 3@ @' 7625'6 '62@'@43 ' > ' ((+ ' %' 5' 2 A' 62@' 2@' 6 ' 4>>47)' 76 16' '62: '62@'%4>'56 ' 3' 23@' 123@2A' 4%'56 ' 3454> 4 ' 4%% 3@ >)' '28' : >9'%2>'%>48' 162>? 3?' B43'56 '764A ' 16 >16K '@2> '345'A42@'94 '2AA' 7 56'5625' 8B D 525 43)'2 ' %'94 ' 7 > ' 3 ;4A: @' 3'56 ';? A5'4%' 5' $%8& + 'Q1 A' 31 '6 ' 6256' ; 3' 1 3 > @' 2114>@ 3?' 54' 8 9' 4>@ >)' 23@' 6256' B>4% @ 6 ' >4 ' > B 3+231)' A 5' 56 ' B 3 68>2 5' ; ' %%1 35)' 76 16' [72 ' 3%A 15 @' B43' 6 8' B ;A 1<A9' 3' 56 ' 143?> ?25 43 ' - ' ! ((+ ' : >9' 5> < 3?' 3 5231 '4%' 5' 2 A-' 8 A@3 ' 23@'5 3@ >3 ' B> 35]' 5 A%' 3' 56 ' B4 5A -' A23? 2? ' 54' 56 ' 4> 356 23)' 2 ' 843? 5' 7648'56 ' 84 5' 25>41 4 ' 31 5' 62@' ; 3' 148 8 55 @)' 23@' 2AA47 @' 54' 1435 B55 ' 7 56' 8B 3 59 ' 3' 16' 23' 4112 43' 2' : 4D A 35' 356 2 5' 74 A@' 62: ' 3 5235A9' 56 3@ > @' %4>56' 2' ;23' 4%' 5 >32A' 143@ 8 325 43)' 1 >52 3A9' 2?2 3 5' 56 ' 3@ : @ 2A' 4%% 3@ >)' B>4 ; 2 ; A9' 2?2 3 5' 56 ' 764A ' 41 59.' 34' CB> 43 ' 74 A@' 62: ' 8 @' 544' ; 55 >)' 34' : 4A 31 ' 544' ?> 25 ' 45' 4' 56 ' B4 5A .' 6 ' CB4 ' 3' 5>43?)' ; 5' 12A 8' 23@' @ ?3 % @' A23? 2?)' 56 ' 34>D 8 59' 4%'56 ' 1> 8)' 56 ' 14352? 43' 4%'56 ' C2 8 BA)' 23@' 56 '@23? >' B%' 8 B 3 59 ' ' 148 823@' 56 8' H' 54' B 5' 27 29')%>48' 28 43?' -' 56 8 A: '5625' 7 1< @' B > 43)' 23@' 54' @ A : >' 6 8' 354' 2523'%4>' 56 '@ 5> 15 43'4%'56 '%A 6)' 5625' 56 ' B > 5' 8 29' ; ' 2: @' 3' 56 ')' @29' 4%'56 '"4>@' * I' & 5' 76 3' 6 ' C64>525 43' 62@' B>4@ 1 @' 56 '@ > @' %% 15)' 76 3' 56 ' 33 >' 62@' ; 3' B 3 6 @' 23@' > @ 1 @' 54' 2' @ ' 3 '4%' 628 '23@' 4>>47'%4>' 6 ' 34>84 ' 1> 8)' 23@' 76 3' 56 ' 2 564> 59' 4%' : >5)' 23@' 56 ' 21> @3 '4%'> A ? 43' 62@' ; 3' 56 '> 54> @)' 7 56' 7625' 3 8 52 ;A '5 3@ >3 '@4 '56 ' B4D 5A ' B 2<' B2>@43' 23@' B 21 '54' 56 'B 3 5 35' 4%% 3@ >)' 23@' 143 B' A25 43' 54' 56 '6 8 ;A @' %%A >16d > ' % ' + J' T '63 3 %/ '4'*4 ,& 0'&0' ((' 3&0) +B' 6 56 >' 94 '2> '2' > 2@9' B43' 8 9' 2BB4 358 35' 54' > 54> 'B 3 5 35)' 2 '54' 3%A 15'B D 3 68 35' B43' 4%% 3@ > ' > ' ! *0,+)] / ' T '&0' 3'- % *0' ; ' 3%& ')P%' ' 5' 2 A' @ A : > @' 56 ' 3D 1 5 4 'B > 43'54' 2523' 9' 3' 56 '328 '4%'56 '"4>@' A > 5)I' / 4>' ,'N.' 4' 3' 'B > 43 23@' ; 9' ' 2 564> 59' 6 ' > A2C '56 ' 3D 5 31 ' > ' 3& 3/+ G A //' ' 0' 3*$(,') ' 0' ,' 0)' * '0 R' &9' 6 >>9 3?' 6 8' 354' @ B2 >.' 4>' > B> 35 3?' 56 '16 >16' @ 1 BA 3 ' 2 ' 5625' 7 6 16' 5 3@ ' 54' 8 3-' > 3)' 23@' 4' 5 8 B5 3?' 6 3' 54' 2B4 52 9' > ' 3& 4/+ /F' W$% 3 % *% ' Q1 *' 6 ' B4 5A ' B>41 @' 54' ? : ' 56 ' 4> 356 23 ' 2' % >56 >' 3 5231 '4%' 6 ' > 2A' 1431 >3' %4>' 56 8)' 23@' 2' B>44%' 5625' 6 ' 345' 148 3?' 54' 56 8' 25' 56 '5 8 ' 2BB4 35 @ ' 72 ' 345' 4112 43 @' ; 9' % 1<A 3 ' 4>' @ > B 15' 5472>@' 56 8 ' /(+ TT ' %* J' '56 '345 '43' 15 'C: ' L TT ' ',**% 6 '*- 0 , ' '56 '345 '43' /' 4>' C: ')/L' T '4 . $ ' '*$0,'0*' &$ ' /' 4%* 3 %/= 648' '62 A' 35'54' <347'56 ' 525 '4%'94 >' 2%%2 > ' > ' 3& 4/+



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)/*&!' %16' -*' *' +*K%2%)*!' +%')/')/*' "#6!'
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8&0,0 ' 0,'*4 ,&0.' *6 %,' &$' 0 6 %4(' *'
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O 4')/*2*#"2*')/*+*' K2"&'+*+!'
6*%2(' -*("5*6!' (*)' 4+' <(*%1+*' "42Y
+*(5*+' #2"&' %((' #'()/'1*++' "#')/*' #(*+/' %16'
+K'2')!'K*2#*<)'10'/"('1*++'1')/*'#*%2'"#' "6
9' *<*'5*' 4+'$' B*' /%5*' B2"10*6' 1"'
&%1!' B*' /%5*' <"224K)*6' 1"' &%1!' 2*' /%5*'
6*#2%46*6' 1"' &%1
H' '+K*%.'1")' 3&')"'<"16*&1'/*$G' #"2'
'/%5*'+%'6'-*#"2*!')/%)' *'%2*'1'"42'/*%2)+'
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C' 2*%)'&' &'-"(61*++'"#'+K**</')"B%26' 334' ,
"4!' 02*%)' &'0("2 '10'"# "4' '%&' '9:
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'1'%((' "42')2'-4(%)'"1
:' "2!' B/*1' B*'B*2*' <"&*'1)"' %<*Y
6"1'%!' "42' #(*+/' /%6' 1"'2*+)!' -4)' B*' B*2*'
)2"4-(*6' "1'*5*2 '+'6*' B')/"4)'A6 %'#'0/)Y
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I' 16' 1")' -' /'+' <"&'10' "1(!' -4)' -'
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#"2)*6' '1' "4!' B/*1' /*')"(6' 4+' "42' *%2'
1*+)' 6*+'2*!' "42' &"421'10!' "42' #*25*1)'
&'16')"B%26' & *' +"')/%)' 3' 2*$"'<*6')/*'
&"2*
J' "2')/"40/' '&%6*' "4' +"22' B')/'%'
(*))*2!' '6"' 1")' 2*K*1)!')/"40/' '6'6' 2*Y
K*1)' '#"2' 'K*2<*'5*')/%)')/*' +%&*' *K'+)(*'
/%)/' &%6*' "4' +"22 !')/"40/'&' 6 %' -4)'
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L' "B' '2*$"'<*!' 1")')/%)' *' B*2*' &%6*'
+"22 !' -4)')/%)' *' +"22"B*6')"' 2*K*1)%1<*
#"2' *' B*2*' &%6*' +"22 ' '%#)*2' %')*,(/' 'K'
&%11*2!')/%)' *' &'0/)' 2*<*'5*' 6%&%0*' -'
4+' '1'1")/'10
A ' "2' 0"6(' +"22"B' B"2.*)/' 2*K*1)

' 3 % *%'.* '*$'%*%&' *0)' 3 ' 0,'4'/' - %' Q1 R'
' 2 26)' 2' 1 5 @' 3' 56' 8 2>? 3' 6' B4 5A'2>?)' 5625' 2'
56'B> : A ?)' 143% >> @' B43' 56'* 7)' 4;A ? @' 56 8' 54' B> >: '
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4%' : >9' 31A 23' 56 3?.' 8 16' 8 4>'6 ?6A9' 8 5' 5' 4;A ? ' 6> D
5 23' B 4BA' 54' B2>25' %>4 8' 2AA' 8 B >' 23@' @4A25>4 ' 74> 6 B'
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%4 3@' C215A9' 239' 76 >' 3' 56' A@' 52 8 35' 6' B2 2?'
76 16'14 8 ' 3 2> 5' 54' 56 8)' F' 28':' /N)' 76 >' B 2< 3?'
4%' 2: @-' @)' # 4@' 2 @)\' '7 AA';' ' '256 >)' 23@' ' 62AA';'
9' 43 I' 47'2' 5625' B>4B6 19' 3' 5'B> 8 2>9' 8 23 3?'> A25 @'
54' 6> 5'23@' 'B 4BA)' ' ;' '0)E' 56'B>4 8 ' 14352 3 @'
3' 5' 7 >' B4< 3' 54';A : >' 4%' 2AA' 325 43 ' F ')
625' 2' B4 7 >% A' 2>? 8 35' @4' 56 ' 74>@' 8 3 5 >' 54' 2AA'
6> 5 23)' 54' H' 1A 23 ' 56 8 A: '%>4 8' 2AA' %A56 3 '4%'%A 6' 23@'
B > 5)' B >% 15 3?' 64A 3 ' 3' 56'% 2>' 4%' # 4@ a I' 2' 56 9' @ >' 56'
A 8 ?659' "4>@' 23@' >45 154>' 54';' 5 AA' B> 35' 7 8' 56 8)' 23@'
74 A@' 2:4 @' 56' @> 2@% A' 7 ' 76 16' 7 AA' 1 >52 3A9' %4AA4 7' B43'
' @ B2>5 >)' 4 ' C' /F.' 2' 56 9' 74 A@' 62:' ' #4@' 54';'
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B 4BA)' 764' 62:' 56' "4>@' %4>' 56 >' #4@.I' 2' 56 9' 74 A@' 62:'
8' 523@' 54' 56 8' 3' 56' > A25 43' 4%' 23' 6 2: 3A9' 256 >)' 76 16'
> A25 43' 1 > '54' 56 8' 56' 3+49 8 35' 4%' 2AA';A 3? '5625' 56 9'
@2 A9' 2 <' 255':' / /.' A2 5A9)' 2' 56 9' @ >' 54';' \' ' 43'
23@' @2 ?65 >)I' 23@';9' 5625' ?A4> 4 ' > A25 43' 54';' 82@' \' 6 >'
4%' # 4@)' 23@' +4 35 6 >' 7 56' 6> 5)I' $4 8':')' /W)' 23@' 54' 62:'
'56' B > 5' 4%' ' 43' 3' 56 >' 6 2>5)' 1>9 3?)' ;;2)' 256 >)I' #2A'
:'M' F '/
62B',' 6'%> 5':> '1431A @'56'2>? 8 35' 4%' 56'A255 >'
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4B 3 43' 4%' 56 >' 764A'16 >16K CB> '6'%2:4 >2;A'564 ?65'
23@' A4:'5472>@' 56 8 K' 23@'> +4 1 '2556 >'> 2@9' 148 BA 231'7 56'
56' 4>@ > '4%' 6 '%4> 8 >' B 5A)' 23@' 3' 56 '?44@' %% 15' 5' 62@' 43'
8_39' 4%' 56 8' 2' 6' 3@ > 544@';9' 5)' 764 ' 6434 >2;A'> '
B5 8' 2843?' 56 8' ?2: '6 8'?> 25' 25 %215 43' W/(+

, >' 'T'- % .&0)' 3 ,&0 A' A729'2@:231 3?' 3' 6 A 3 '43'
2>56)' 5 AA' 7 '2>> : '25' B >% 15 43' 3' 6 2: 3' $%8& +
' . &' '$'`' 354'9 >' 2%% 15 43)' 2' 94' 62:' '2'A2>? ' 62>'
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H' - 8' 0*' 3&' *' .*0, 0' /*$&F=' %' 3?>25 5 @' 4>' 3% D
@ A 59)' 564 ?6' ' 62: ' ; 3' 4;A ? '54' % 3@' 48' %2 A5' 7 56' 94
%+' *,,%&,) +
T T T'/' % '&0'-$%' 3 % ' *',&' 0,'(&' 6&3'/*$<=' 625')' 7'
A4: '94' 4' B2 4325 A9)' 5625' 7' 14 A@' : 3'@ '%4>' 56'B>4 8 45 43'
4%' 94 >' 7 A%2> ' %+' 3&4/+
N' % '&' /' 4*(,0 ';' - .3' *6 %,'/*$'X.+' 5 /'%> @4 8'
3' 8 35 43 3?' 94 >' %2 A5'&'?> 25' 3@ @)' ; 5' 7 562A' 28'2'%> '
3';42 5 3?' 4%' 94 >' 4; @ 31 .' 23@' 564 ?6' 62:' 62@' 8 16'
?> %' 23@' % 2>' : >' 0E' 56>4 ?6' 56' 3' 5625' 7 >' 2 8 43?' 94)'
9 5' 56'+49' 76 16' '52<' 3' 94 >' > B 35231' ' C5> 8 A9' 8 4>'
2; 3@235623' 72' 56' 4>>47' %+' ! *0,+
'T' 6&3*$' 6 %'&)3 &0) ' '8 5' 7 56' 5> %' 23@' 4BB4 5 43'
3' B> 216 3?' 56' # 4 B>%' %+' ((+
' 6&3&0' 6 %' % & ' " 5' 56' %2A' 2B4 5A' 64 A@' 62:'
B >: >5 @' 94 '%>48' 56' BBA 1 59' 76 16' ' 3' 6> 5)' F' 4>' C' H'
%+' 3&4/+
+ 4/' 3 +.*0 *(&*0' 63 % 6&3' 3' 6 '.*%% *% ,'&0' /*$ =' 625'
)' ;9' 56' 3 7' 5625' 6' ;>4 ?65' 8)' 23@' 7 56' 7 6 16' 6' 72' 4
8 16' 148 %4>5 @' %+' ! *0,+
T'/*$%' 0 (', &% 4';' 2BB>4:' @' 4%' '.' 94 >' 8 4 >3 3?'
%4>' 56'+ 5' 12 '4%' 123@2A.' 94 >' % >: 35' 2%% 15 43' 5472>@' 8 '
-+! "+
' T' 6&3' '(%=' 9' %4>8 >' B 5A' 5' %+' s ((+
T T ' ',*' 0*' % - 0' 3*$)3' &',&,'% - 0' 5 [' 28' 345' 4>>9
347)' 564 ?6' ' 72' 4>>9-' 76 3' ' 7>45' 56' B 5A)' @4 3?' 5'
\7 56' 8 239' 5 2>)I' 162B' 'N' %+' 3&4/+
/' T' % - 0 0.' *' (' &*0' 0*' *' 4' % - 0 ,'* ' 625')' 2'
> B 35231)' 3 :>' 54';' '> B 35 @' 4%)' 9 2' 54';' '+49 8' 3'.' 6' %
> B 35231' 2' A 2@' 54' 5 >32A' 2A:25 43' -+! ((+ '1623?' 4%'
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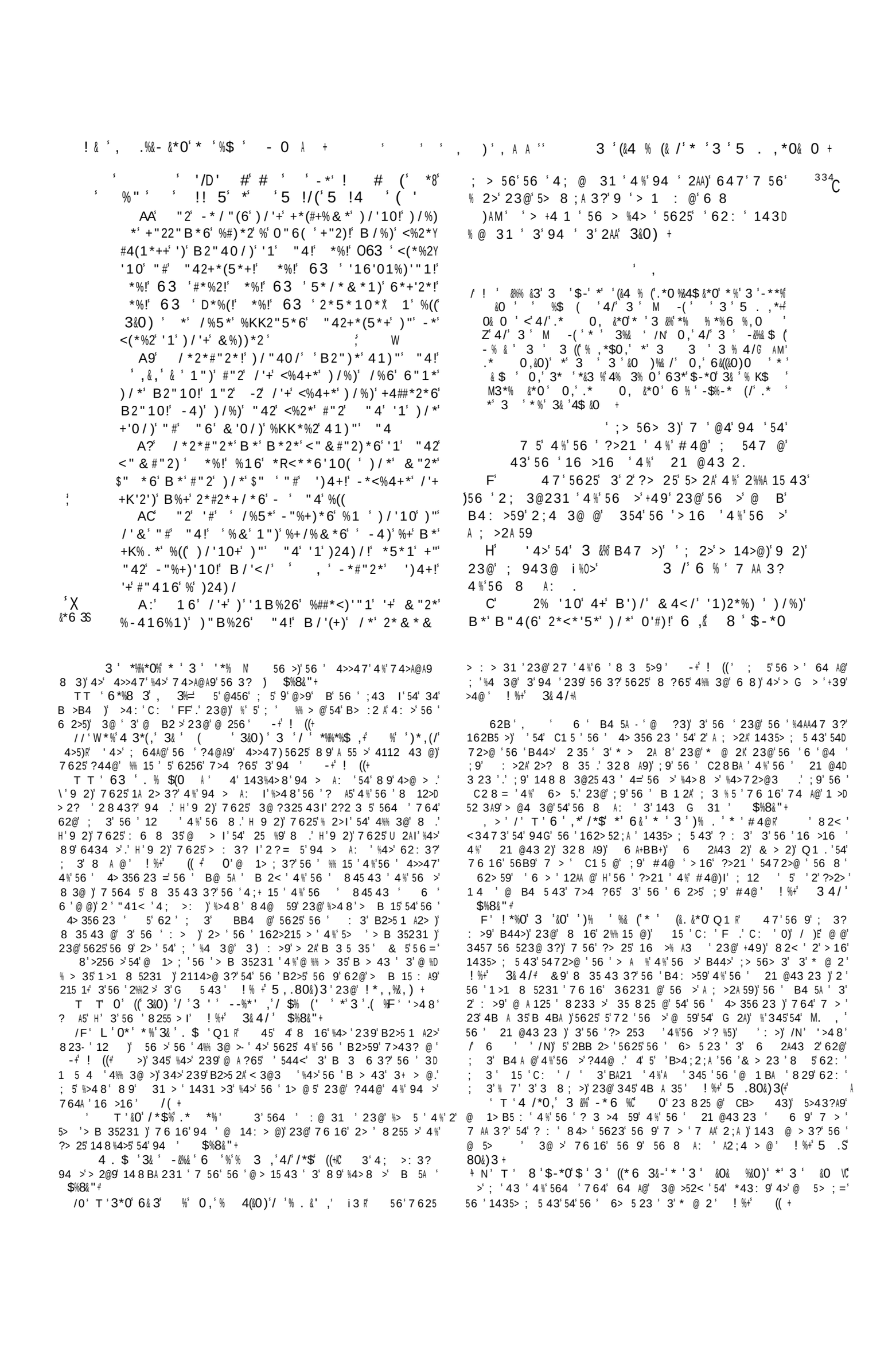

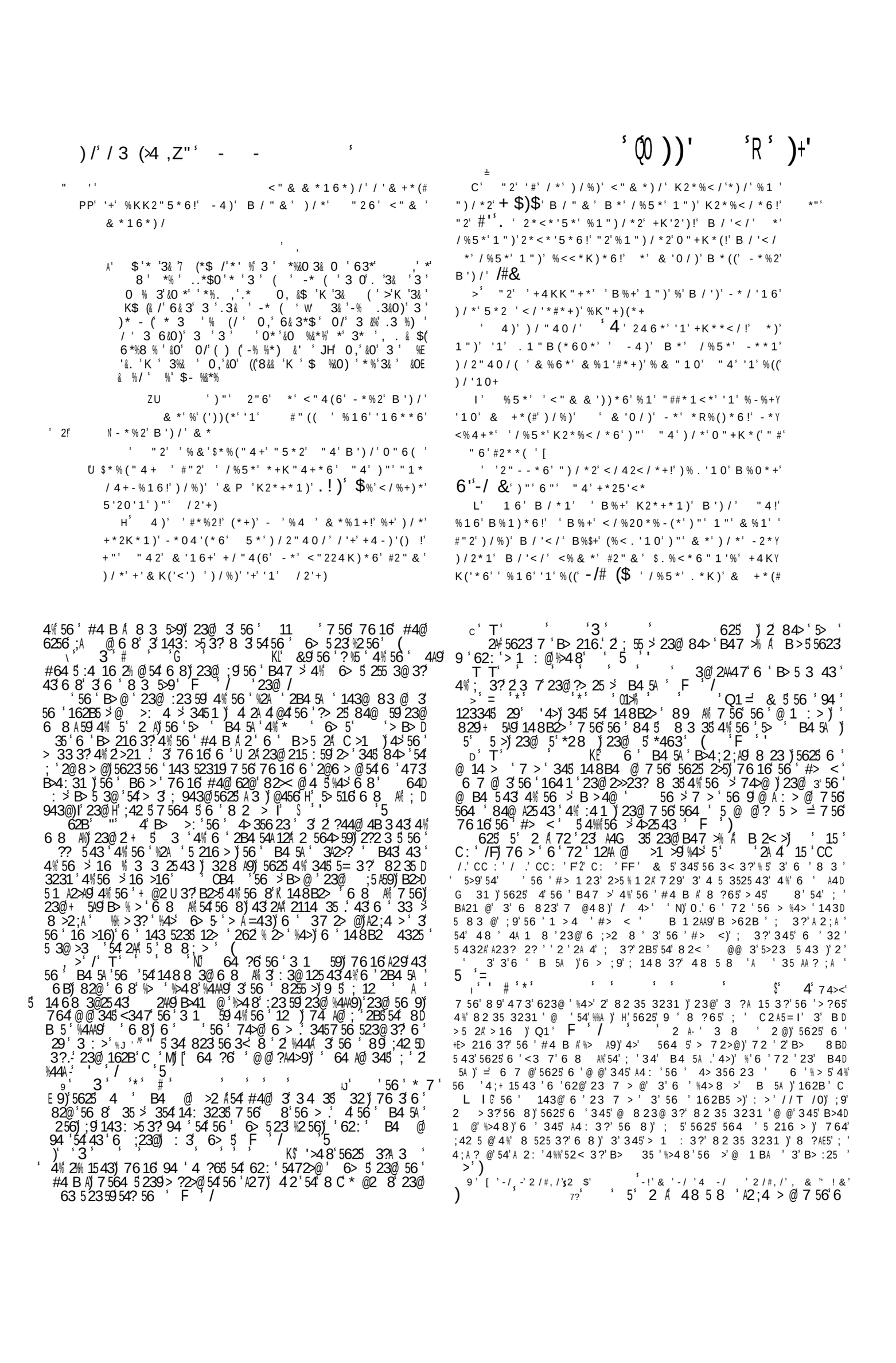

6 ' #2" & ' -*'1##' -426*1+" & *' 41)" ' "4!' %16' $!'
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#' > ' A ' +') / *')24) / ' " #' /2'+)' '+' '1' & *!')' 1 "'
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$!** "#' 2*0'"1+' "2' </%2%
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%K"+)(*+' "#' /2'+) ' ' !
AC' 16' 1"' & %25*(' ' #"2' %)%1' /'& +*(#'
'+')2%1+#"2& *6' '1)"'%1'%10*(' "#'('0/)
AK /*2*#"2*' #-$#$ 1"' 02*%)')/'10' '#'/'+'
& '1'+)*2+'%(+"' -*')2%K+#"2& *6'%+')/*' & '1Y
'+)*2+' "#' 2'0/)*"4+1*++' B/"+*' *16' +/%((
-*'%<<"26'10')"')/*'2' B"2.+
AE' ' +% '%0%'1!' *)'1"' & %1')/'1.'& *'%
J ' #" "(' '#' ")/*2B'+*!' *)'%+' %' #" "(' '2*<*'5*'
7>\>;=;' ' '$"%+)' & +*(#'%'('))(*

AI' /%)'B/'</' ' +K*%.!' ' +K*%.' #-' 1")'
%#)*2')/*' "26!'-4)'%+' ')'B*2*'#" "('+/(W'1' P
)/'+'<"1#'6*1<*'" #' -"%+)'10
AJ' **'10')/%)' & %1 ' 0("2 ' %#)*2')/*
#(*+/!' 'B'((' 0("2 '%(+"7' !
AL' "2' *' +4#*2' #" "(+' 0(%6(!' +**'10' *
.!) $ %0 $ %2*'B'+*' P
9 ' "2' *' +4##*2!' '#'%' & %1' -2'10' "4''1)"'
-"16%0*!' '#'%' & %1' 6*5"42' .! ' '#'%' & %1'
)%.*' ! '.!) ' '#'%' & %1' *R%()' /'& +6#!' '#'%'
& %1'+& ')*' "4' "1')/*'#%<*
9A' ' +K*%.' %+' <"1<*21'10' 2*K2"%</!'%+'
)/"40/' B*' /%6' -**1' B*%.' "B-*')'
B/*2*'1+"*5*2' %1 ' '+' -"(6!' ^ ' +K*%.' #" "(Y
'+/(!N' '%& '-"(6'%(+"
99' 2*')/*' *-2*B+![' +"' & ' 2*'
)/* ' +2%*(')*+' [' +"' & ' 2*')/* ')/*'
+**6' "#' -2%/%& '[' +"'<)B)'
9?' 2*')/* ' & '1'+)*2+' "#' /2'+)[' ^ '
+K*%.' %+' %' #" "(N' ' # & "2*' '1' (%-"42+'
& "2*' %-416%1)!' '1' +)2'K*+' %($"5*' & *%Y
+42*!' '1' K2'+"1+' & "2*' #2*V4*1)!' '1' 6*%)/+'
"#)

47 3'623@)'23@' 2>3 @'6 'A:3?)' / 4>' :' /F.' C'M.' 4'25'456 >'
6'>1 : @' BBA '%>48'56' 6 BB23)' 6A':'A)'AM' %+'
! *0,+
/F' T' 3 '08 % &/& 3 /')(*%/' 3 /' /'3' *$0,' ' 0' '6 +N
5)'74 A@' 8'5625'56' %2A '5 216 >'25' 4> 356)' 3' 8 525 43'4%'
56' B4 5A)'B> 5 3@ @' 54'52<' 3456 3?' %4>'56 >' B> 216 3?)'23@'
;42 5=' 4%'56 >'@ 35 > 5 @3 ' :>56 A '43' 456 >' B> D
5 31 '56 9'>1 : @'B> 35'%>48'56 >'@ 1BA ' G'B> :25)'329)'
C54>5 @'56 8'2 ':>'F ' 6 > %4> '54'B 5'56 ' 8B4 54> '54'
628)'23@'54'4;A?'56 8'> 2A9'54' 8 525'6 8.'56' B4 5A'@ D
1A2> @'5625'6'3 : >' 62@'52< 3' 239'56 3?)'34>' : >' 74 A@'52<'
239'56 3?)'%>48'56 ' 4> 356 23)' 56 >' 3'B ;!1<' 4>' 3' B> :25)'
43' 239' 2114 35' 7625 4 : >' >' 5 .80&)3+
H# T' % 0 *% &0)' 3 3 '&0 *' 3' -* ('K' 3%& &N 3D
3?'54' @4' 2' 7 '@4)' 4>'@ > 3?'54' ; '564 ?65' G 2A' 54' ' 3' 2AA'
56 3? ' %+' 3& 3/# 4 35 >% 5 3?'56' 4 572>@' 2BB 2>231'4%'
5> ' B4 5A ' >' ((+
/N' T' 0' 3& ('& ' % 0 *% ,'&0 *' 0' 0) ('K' "3 &N > D
5 3@ 3?'54' @4' 56' 74>< ' 4%' 16' 23? A)' 23@' 54' ; ' 2' 8 3 5 > 3?'
B > 5'54'56 8' 7648' 6' 35 3@'54' @ 5>49' %+' 3& 3/# 3'56 '
8233 >' 5' 829' ; ' BB4 @'5625' 2523' 5>23 %4>8 @' 6 8 A%' 76 3'
6'5 8B5 @' 4 >" "4>@' 3'56' 7 A@ >3 '.' 23@' 3'A < ' 8233 >' 2A 4'
76 3' 6'5 8B5 @' : ' >' 5 .80&)3+
/0' T' ..*%,&0)' *' 3 &% 3@' 345' 54' 56 >' B 14
23@'69B41> 5 12A'B> 5 31)' 6A' ' /L' %+' 3& 3/+
D# ?L ' ' **('% . &&M' N' %' ; 2>'7 56' 8 I' %&3$% +'
" 5' 8 '%4>'56 '5 8 ' 52<' 56 ' B> : A ? '23@'A ; >59' 4%'%4A49' -+'
! ((+
/W' O ' - 8'& '0*' %' 3 ' *%,' Q ' '28' 1435 35' 5625' 5'
2BB 2>)' 2' B4< 3' 3' 2' 1 >52 3' 6 823)' 23@)' 2' 9 ' 829' 143 5> '6)'
2' :2 3' 23@'%43@' 8233 >)' 23@' 345' 2 '%>48'56 ' "4>@'K ; 5' %'56 ' 41D
12 43)' 328 A9)' 89'473'@ % 31 ' 23@' 56 ' : 3@ 125 4&' 4%' 8 9' 2B4 '
5A 6B' %>48' 1435 8B5)' ; ' 7 AA' 143 @ > @)' 5' 7 AA' ; '%4 3@' 5625'
56 ' ;42 5 3?' ' ;456' 3 1 2>9' 23@' 64A9' -+' ! ((+
' 5' ' 4; >:2;A)' 6G7' 8239' 2B4A4? '%4>)' 4>' 8 3?' 143@03 '
325 43 ' 4%)' 6 8 A%' 5A ' B4 5A ' 82<)' 3'? : 3?' 729' 4' %2>' 54' 56 '
B>4:4125 43' 4%'564)' 764' B4< '4>' 564 ?65' @ 6434 >2;A9' 4%' 6 8 '
%' 5+ '< 3@' 2> '6 ' : >2A' CB> 43' 3' : >'F/)' FL)' '.' 162B)'
C+ '/)'//)' 7 56' 456 >' 54' 56' 28' B >B4 ' 4' 12 54 A9' @4 '
56' B4 5A' ; 62: '6 8 A%' 3' 2' B4 35' 76 16' 6 '> ?65A9' 3@ > 544@'
54' ; '4'3 1 K 23@' 6 ' C28 BA' 5 216 ' '647' 12> % A' 7 '4 ?65'
54' ; '3' 72>@ 3?' 4%%' 2AA' 56 ' 3162 52;A' 143 5> 15 43 ' 2B5' 54' ;

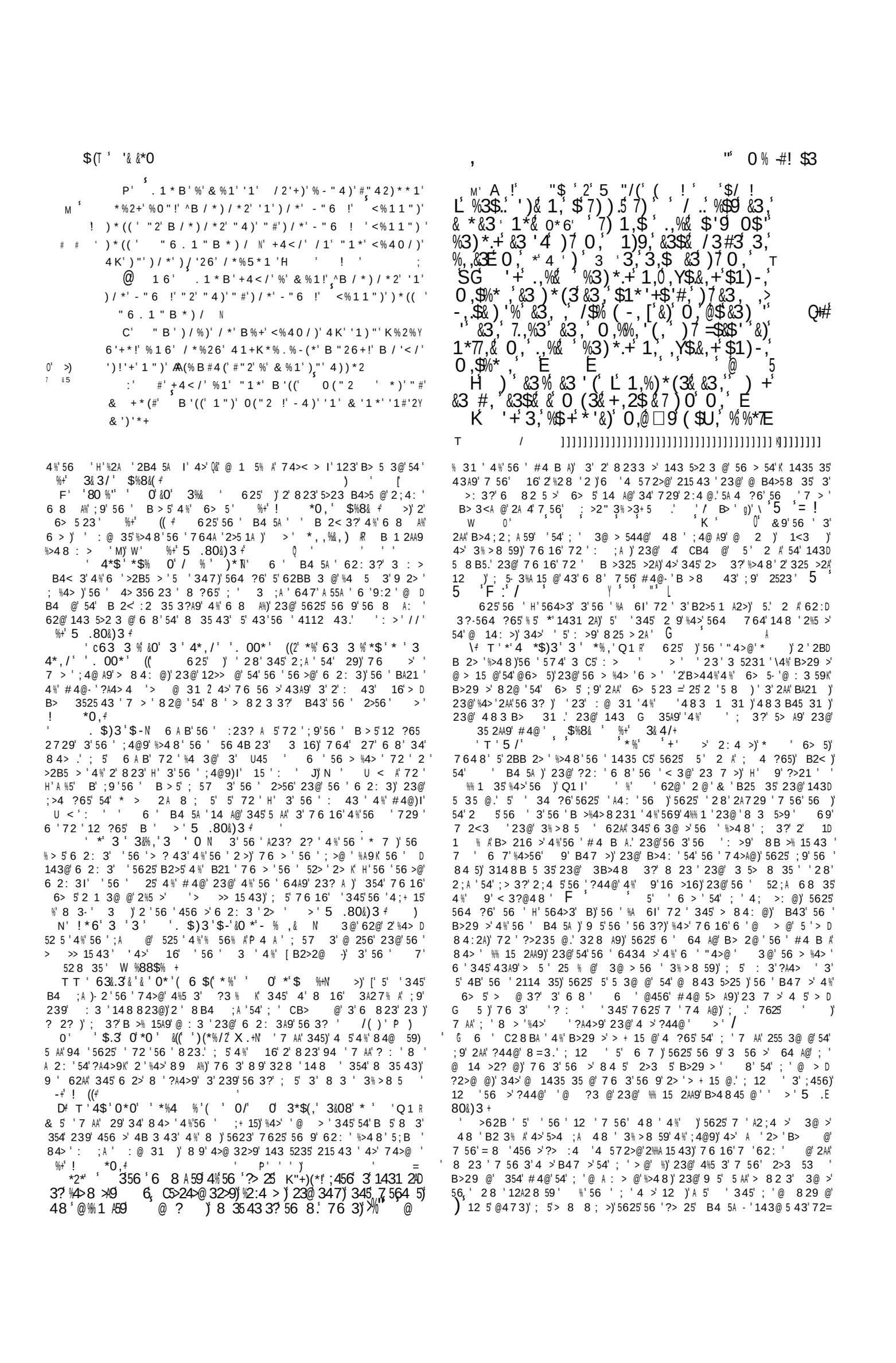
82@'4%'56 '84 5' 3 1 2>9' 23@' 56 '84 5' 84@ 5' B ;A 125 43' 4%'
4 >' 473' 143@ 15' 23@'@ >: 3? ' F
/L' T' 3' C5 >32A' B>: A ? '23@' 4 572>@' 2@D
:2352?)' B2>5 1 A2>A9' ^'; 3?'56 ' 325 >2A' @' 4%' ;>2628 '
5 ' 3 ' Q1 R' ' %'6 '62@' 2@' 4>'123'
89' 8 3?'%4AA9'4%% 3@'94)' %'94 ' ; ' 3@ @' 7625'94 'B> 5 3@K
9'%4>'9 ' %% >' %44A' ?A2@A9)' 3?'9 '94 > A: ' 2>' 7 I' 3'
94 >' 473' 1431 5 ' F ' / ' 6 ' '7> 55 3' 3'56 '6 ?6 5'
5>2 3' 4%' >439)' 2 ' 'BA2 3' %>48' : >'F)' 76 > '6 ' 8 3543 ' 3'
841< >9'56 >' 2 ;+ 15' ; 2> 3?' 4%'56 ' 1435 8 A4 ' 23@' 3+ >4 '
; 62: 4 >' 4%'56 >' %2A '5 216 >)' 2 '23' C28 BA 'G%'56 >' 7 @48' 3'
; 2> 3?' >') ' ' '

KJI ' < 5 ' *D ' 6 ' ! & D ('
' 7'#"2) ' $- #* $+%5*' "1*P' Z' W
S *4) +' 9:' /2'<*' B%+' ' -*%)*1' B')/' 2"6+!' "1<*
' %+' ' +)"1*6!') /2'<*' ' +4##*2*6' +/'KB2*<.!'
%'1'0/)'%16'%'6% ' ' /%5*' -**1''1')/*'6**K
9E' '$"421* '10+'"#)*1!'#'K*2'(+' "#' %Y
)*2+!'#'K*2'(+' "#'2"--*2+!'#'K*2'(+'- ' &#'
'N& '<"41)2 & *1! K*2'(+'- ')/*'/*%)/*1!'
#'K*2'(+''1')/*'<') !'#'K*2'(+''1')/*'B'(6*2Y
1*++!' &' K*2'(+''1')/*' +*%!'##K*2'(+'%& -10'
#%(+*'-2*)/2*1' '=
; ' ('' B*%2'1*++' %16' K%'1#''(1*++!' '1
B%)</'10+' "#)*1!' '1' /410*2' %16;)/'2+)!' '1'
#%+)'10+' "#)*1!' '1'<"(6'%16'1%.*61*++
9J' *+'6*')/"+*')/'10+')/%)'%2*'B')/"4)!'
)/%)'B/'</'<"& *)/'4K"1' & *'6%'(!')/*'<%2*'
"#'%((')/*'</42</*+
' /"' '+' B*%.!'%16' ' %& ' 1")'B*%.' ['
B/"'+' "##*16*6!'%16' '-421' 1")' [
? ' #' ' & 4+)' 1**6+' 0("2 !' ' B'((' 0("2 '
"#')/*')/'10+'B/'</'<"1<*21' & '1*' '1#'2& '
')'*+

?A' /*' "6' %16' %)/*2' "#' "42' "26'
3*+4+'_/2'+)!'B/'</'+'-(*++*6'#"2'*5*2$4"2*!' *"'
.1"B*)/')/%)' ('*'1")
?9' 1' %& %+<4+')/*' 0"5*21"2' 416*2'
2*)%+')/*'.'10' .*K)')/*'<') ' "#')/*' %Y
& %+<*1*+' B')/' %' 0%22'+"1!'6*+'2"4+')"' %KY
K2*/*16' & *
??' 16')/2"5'0/' %' B'16"B' '1' % -%+.*)'
B%+' '(*)' 6"B1' - ')/*' B%((!' %16' *+<%K*6'
/'+' /%16+

' ,
' W*%'.* 0,&0)'*'3& -* (3&-' 3*$)3' 3' &)3'
)(*%/'*' 3&' 6*0, %$(% ' (&*0 ' Z'/ ' 3' % 3 %
.3** &3' *')(*%/'*'3&'&0 && & ' //' 4(&0)' 3 '
*%' *%.&0)' 3&' *' 3&' ' &0' 4* &0)+ /N' (& '-%*'
& .(3' *'.* ' *' 3 ') &0'2' 4$'/ ' (*) 3 '&0' 3 '
. &*0' *' ' 3 %' U' (3*$)3' 3 ' % 3' 3 ' 3 ((
'3& ')%& '&0,' 0/' 0, % ' 0,'-$4(&.8',& *%, %'
3 % +
' '+' 1")' *RK*6'*1)'#"2' & *' 6"4-)(*++')"'
0("2 ' 'B'((' <"& *')"'5'+'"1+'%16'2*5*Y
(%)'"1+'"#)/*' "26 ' ;

FN' L'*% /' %&- ' ' ' +F= 6'?> 25 5' : >59' 5625' 5A
* 7 6'A27'B >8 55 @)' 5'$$G' ' %+' ! *0,+ '56 '345'
43' 5'CC:'H+' O
F0' 3%&. ' ' '4 0' "8'%*, ' ' ; 3@A ' ;%'76 16'72'
12>> @' ; %4>'56 ' $4823' 43 AK 4'5625'56 'B 3 68 35'6 >'
2AA @ @'54'72 'B>4;2;A9' 3%A 15 @' ;9'56 ' $4823 ' %+' ! *0,+
' 3%&. ' ' $ % ,' 3&- % .8 ' %'56 ' 6B7>1<)'34D
56 3?' N'8 3543 @' 3'56 ' 15 ' '4>)'2'56 ' B 5A ' 72 '7>55 3'
; %4>'56 ' B4 5A '72 ' 35'2'B> 43 >'54' $48 .'6 ' 6B7>1<'43'
56 ' A23@'4%' A52'72 '345'43 '4%'56 '56> ' 6 >'2AA @ @'54' %+'
5 .80&)3&' ': ?' ' ' ' ' P' ' ' ' ' I
T T' ' '0&)3' 0,' ', /' '3 ' '4 0'&0' 3', -' >4;2;A9' 3
43 '4%'6 ' 6B7>1<'6 '72 '54 @'54'23@'%>4' 3 56 ' 2'%4>'56 '
B21' 4%'5 8)' 43' 48 ';>4< 3' B 1' 4%' 2' 6B' -+' W ((' %+'
A (& 4/+')
' FM' L%%6 3 '6&5 ' 625')' 3'56 ' 14 35>9)'2'4BB4 @'
54'\'56 '1 59)--'1>54 7 3K 4'12AA @' 3'2114 35'4%'56 '1123B2>25 : A9'
8 2AA'3 8 ; >'4%'56 ' 362;5235' %+' ((+
+ P\+ &, ' 3* ' 3&0) ' 3 A %' &3*$' Q1 RF' 4>''2>' 56 '
4 572>@' 23@' ;4@ A9'' 3143: 3 31 ' 56 ' 764A ' 4%' 8 9' 6> 5 23'
%% > 3? 2' 5 AA'?> 25 >= 23@' 84>' 143 5235' 2>' 56 ' 372>@' 12> =+'
56 '+ 2A4 ' 23@'% 2>' ' 62: '%4>'2AA'56 '16 >16 ' ' 62: 'BA235 @'
/(+ 6 ' ': >9' B>4B >A9' 8 35 43 @' 2843?'56 ' B4 5A ' %D
% > 3?)' ; 12 5' 72 ' 345'43 '4%'56 'A 2 5' 4%'56 8.' 2'7 829'
+ @? '%>48'56 '2114 35' 76 16'6 '62'?: 3' 3'56 '574' B 5A)'
4%'56 ' C1 @ 3?'?> %'76 16'56 ' >>4 > '23@' >> ? A2>5 '4%'56 '
3?A '16 >16'4%' 4> 356'4112 43 @'54'6 8K 9' 56 3'7 > '% 2>)\'
162B': '0'' & @)'56 ';> 56> 3'4%'2AA'56 ' # 35A ' 16 >16 '
62@' > 14 > '54'56 ' B4 5A ' 3'56 >'@ %% 1 A5 '%4>'2@: 1 '23@'
143 4A25 43)' 76 16' 8 5'62: ' ; 3': >9' %25? 3?' 54' 6 8 ' %Z'
5 .80&)3' ' ' '



$(')3%& 3'&0'5 '&0 && & & + ' ! 7$ & & 3'3& (+

- ')/**'#"2' & '+)2*1P/''+' &%6*
:' K*2#*<)''1' B*%.1*++' "+)'P%6(')/*2*Y
#"2*' B'((' 2%)/*2'0("2 '1' & '1#'2&')'*+!'
)/%)')/*' K"B*2' "#' /2'+)' &% ' 2*+)' 4K"1'
&<'
A ' /*2*#"2*' ')%.*' K(*%+42*'1'1#'2&'Y
)'*+!'1'2*K2"%</*+!'1' 1*<*++')'*+!'1'K*2+*
;<4)'"1+!'1'6'+)2*++*+'#"2' /2'+) +%.*'#"2'
B/*1' '%&' B*%.!')/*1'%&' '+)2"10
AA' '%&' -*<"&*' %'#""('1'0("2 '10' *'
/%5*' <"&K*((*6' & *' #"2' '"40/)')"'/%5*'
-**1' <"&&*16*6'"#' "4' #"2' '1'1")/'10'
%&' ' -*/'16')/*' 5*2 ' </'*#*+)' %K"+)(*+!'
)/"40/' '-*'1")/'10
A9' 24(')/*'+'01+' "#'%1' %K"+)(*' B*2*'
B2"40/)' %&"10' "4' '1' %((' K%)'*1<*!' '1'
+'01+!'%16'B"16*2+!'%16'&'0/)' '6**6+
P?' "2' B/%)''+' ')' B/*2*'1' *' B*2*' '1Y
#*2'"2')"' ")/*2' </42</*+!' *R<*K)'&' 3')/%)'
' & +*(#B%+'1")'-426*1+"&*')"' "4'[#"2Y
0'5*' &*')/'+' B2"10
AC2 */"(6!)/*)/'26')'&*' '%&'2*%6 ')"'
<"&*)"' "4' %16' 'B'((' 1")'-*' -426*1Y
+"&*)"' "4' #"2' '+**.' 1")' "42 +!' -4)'
"4' #"2')/*' </'(62*1'"40/)'1")"(% '4K'
#"2')/*' K%2*1)+!' -4)')/*' K%2*1)+' #"2')/*'
</'(62*1
A:' 16' 'B'((' 5*2 '0(%6(' +K*16'%16'-*'
!) 2' +K*1)'#"2') "4')/"40/'P/*' &"2*' %-41'
+/ $% *&"' ^$%1)(' '("5*' "4!)/*'(*++' '-*'("5*6

AE' 4)'-*')'+"!' '6'6'1")'-426*1' "4''
1*5*2)/*(*++!' -*'10' <2%#) !' '<%40/)' "4
WB')/'04'(*
AI' '6' '216.*'%'0%'1'"#' "4'-' '%1 '"#'
)/*&'B/"&' '+*1)'41)"' "4'[
AJ' '6*+'2*6' ')4+!'%16'B')/'3& ' '+*1)'
%'-2")/*2' '6' ')4+'&%.*'%'0%'1'"#' "4[
B%(.*6' B*'1")'1')('*'+%&*'+K'2')[' B6 (8 ,'
6'1")'1')/*'+%&*'+)*K+[
AL' 0%'1!)/'1.' *')/%)'B*'*R<4+*'"42Y
+*(5*+' 41)"' "4'[' B*'+K*%.'-*#"2*' "6'1'
/2'+)'-4)'6 ',*'%((')'10+!'6*%2(' -*("5Y
*6!#"2' "42'*6'# '10
9 ' "2' '#*%2!'(*+)!'B/*1' '<"&*!' '+/%((
1")'#'16' "4'+4</'%+' 'B"4(6!%16' 3 ' '
+/%((' -*'#"416' 41)"' "4'+4</'%+' *' B"4(6'
1")'(*+)' 3 %'4'6*-%)*+!'*15 '10+!'B2%)/+!'
+)2'#*+!'-%<.-')'10+!'B/'+K*2'10+!'+B*(('10+!'
)4&4()+
9A' 0,'(*+)!'B/*1' '<"&*'%0%'1!'&' "6'
B'((' /4&-(*'&*'%&"10' "4!'%16' 3 'A'+/%((
-*B%'(' &%1 ' B/'</' /%5*'+'11*6' %(2*%6 !'
%16'/%5*'1")'2*K*1)*6'"#')/*' 41<(*%11*++'
%16'#"21'<%)'"1' %16' (%+<'5'"4+1*++' B/'</'
)/*' /%5*'<"&&'))*6

' ! '3% 0 3' '%&/' 0,'3'-*' %'*'3&' -* (3&-'
) &0 '*4 &0 ' &00%+' >' 0,' ,'& &0)' 3 '*'e'
%& (*'3 &%' &3' ' 0,'*' '% *% &*0'*'3 &%' &0 '
4 *%'3&'.* &0)' =' 3'.*0.($, (3' 3&' -& ('6&3' '
) 0 % (' M3*% &*0' 0,' '-% / %+

5 16'56' 28'2'4 > .'23@)'B>4:@ @' ' ;'5> '23@'%2 56% A' >D
:235'4%'#4@)' '5' 2 A'72')' 564 ?6'345' 3' 4' 8 3 35'2'@ ?> '
2'6'72)E'A 5')' ' 29)';'2 > @'5625'56'74>@' #4@)'9' 9'
?>21' ' %% 1 35'%4>'56)'%4>' 9' 5> 3?56' '82@'B >% 15' 3'
2<3)I'2>'2'1 >52 3A9' B4< 3'54' : >9' 43'4%')'2' : >'
56 9'7 >'54'6 8' 3@' 3@ @'56 >' '2'? 3 >2A'B>48 '4%'#4@'
4%'56' 28', 8 B4>5)'@ A : > @' ;9'56' 28' B4 5A'54'2AA'5> '
6> 523)' 4>'C' .'9'#4@' '%2 56% A)'764'7 AA'345' %% >'94 '
54';'5 8B5 @'2;4:'5625'9'2>'2;A .';5'7 AA'7 56'56'5 8B52D
543'2A 4'82<'2'729'54' 12B)'5625'9'8 29' ;'2;A'54';2>'5 I'
6 >>%4>'A 5' '148%4>'5' 43'23456 >'7 56'56 '74>@' -'
$ +
' T ' *%' /' % 0) 3' $' , '- % .'&0'6 80 %' 45'2'%
4 >'7 2<3 '2@@ @'239'56 3?'54'#4@'B47 >)';5'5'>3@ > ' '
B47 >'84>' ?32A'23@'143 B1 4 ' 68& '
T 3 '3'-*6 %4%' 3%& ' /'% '$-*0'8 R' '?A4>9'3'89
3%>85)'2'84>'143 B1 4 '@ 843 5>25 43'4%'564 '@:3'
3@478 35'7616' 6> 562'143%>> @43'8 ' /8+
63'7'143 @ '56'3%>85 '4%' 5' 2 A)'54? 56'>'756'6'
33 8 >2;A'54A'23@ %%>3?)'7'12334521144 35'5'A '5623'2
8 >21A'5625'6'72'2;A'%4>' 4A43? 25 8'54 @4 7625'6'@@)'23@
54';2'7625'6' 3@ >7 35.' 4 5625'6';4@ A9'7 2<3)'3 5 2@
4%';3? 23 4;+ 15 43'54'6'162>215 >)'2%%4>@ @ 2 B>44%54 2AA' 764'
<3 7'6 8)'5625'6'8 562:';3' BB85 @;9 2 :3'B47 >'
3'23 C5>24>@ 32>9 8233 >' %+' *%&0+
/'T'63 0' ' '6 8'3 0' ' ' %*0)' 3'5 8'4%'2%%A 15 43'
56'5> 3?56'4%' 6> 5' '84>' 8 3 35A9':;A'3'8 K'56'6 2:'>'
56'B> >'2>)'56'?> 25 >' BB4>5' '62:'%>48' 8' %+'
! *0,+
//)'T'3*$)3' '4'0* 3&0)+ '89' 3 8 '2114 35'8 '56>4 ?6'
3:9)'23@'2'' 2114 35'89 A%' 3'6 8 A 59' $%8& (
/N' 3*(,' 3' 3&%,' & ' ' ' % ,/' *' ' *' ' '
8 238?'B>4;2;A9' '56 K' '62:'431'215 2AA9';3'7 56'94 '.
'72'>2@9 54'148'2 143@5 8)'564 ?6'94 >'@ 4>@>'63

@ > @'5625'+4 >3 9)'162B' 'F'.'23@' '28'347'>2@9'56'56 >@'
5 8 ' %+' 3&4/+
*%'3'.3&(,% 0'Q ' 'A44<' B43'94'2'89' B>5 2A
16 A@> 3)'23@' 62AA'B>4:@'%4>'94)'7 564 5' CB 15 3?'239'56 3?'
%>48'94 ' /(+
>+T' '6&((' %/')(,(/' -0,'0,'3' -0' *%'/*$'`J ' *0%> '
54';547'2AA'8 9' 3 5> 15 43'43'94)'329)'54'A29'4 5'2AA'8 9'
5> 3?56'3'A2;4>'%4>'94 >'?44@' '=<
' $'3'&' *'Q1 A' 6' B4 5A'6>'23 7>'23' 3%4 3@ @'
4;+ 15 43)'5625'564 ?6'6'72'345';>@ 3 48'54'56' 4> 356 23'
6 8 A%)'6'1>2%5 A9' 35'54'56 8'456 >)'7648'6' 8 BA49 @'54'
B>41 >'843 9'%4>'A 8' '56 >%4>'2BB 2A'54'56 8 A:)'
76 56 >'239'B > 43)'6' : >' 35'54'56 8)'>1 : @'239'56 3?'4%'
56 8'%4>'6 ' $%8& +
'T' 0,'6&3'3& ' ' 0' '4%* 3 %+B' 64'5625';>456 >'72' '
345'<3473' %+' 5..80&)3&+
TF/')&0'308'/'3 '6'M.$ '*$% (' '$0*'/*$'Z Q1 R'
'& '3'62@' 2@' 6 3<'345'5625' 'C1 '89 A%' 4'4%5 3'%4>'@ D
% >> 3?' 89'B>48 @'+4 >3 9)'%>48'239' 3 5>'B >B4 '4%'89'
473' 5' '9 >';3 %5'23@'>%4>8 25 43'5625' '2 8'25' '4>': >A9'
'% 2>)'76 3 :>'148)' 62AA'%3@'564 ' 3'345'>B 35 @'4%';9'
8 239'4%'94)'76 16'7 AA';'8 255>'4%'6 8 A 25 43)' 4>>47)'23@'
A2 8 3525 43'54'8 .'23@'5625'/' 8 5';'148 B AA @)'1G35>2>9'54'
8 9' 31A 325 43)'54'3%A 15'1 3 >'23@'14>B4>2A' B 3 6 8 35'43'
8 239'4%'94)'%4>'56 ' 16 8)'@ ;25)'23@' 5>% ' 4%' 48)'23@'
%4>'56 ' 3 + 233=)'%48 125 57)'23@'A2 1:4 3 ' 4%' 456 >'
$%8& +

62B' ' 6 ' B4 5A'56> 25 3'54'B 3 6'6 ' 4; 5 325'
4BB4 >)'25'6 '3 C5'148 3?'28 43?'5'56 8 ' 3'56 ' 8 23'5 8)'
6 ' C64>5'56 8' 2>3 5A9'54'2'>%4>8 25 43)'23@' B>4% '6'
64 A@';'>?65'?A2@'54'%3@'34'4112 43'54' 647'56 'B47 >'6'
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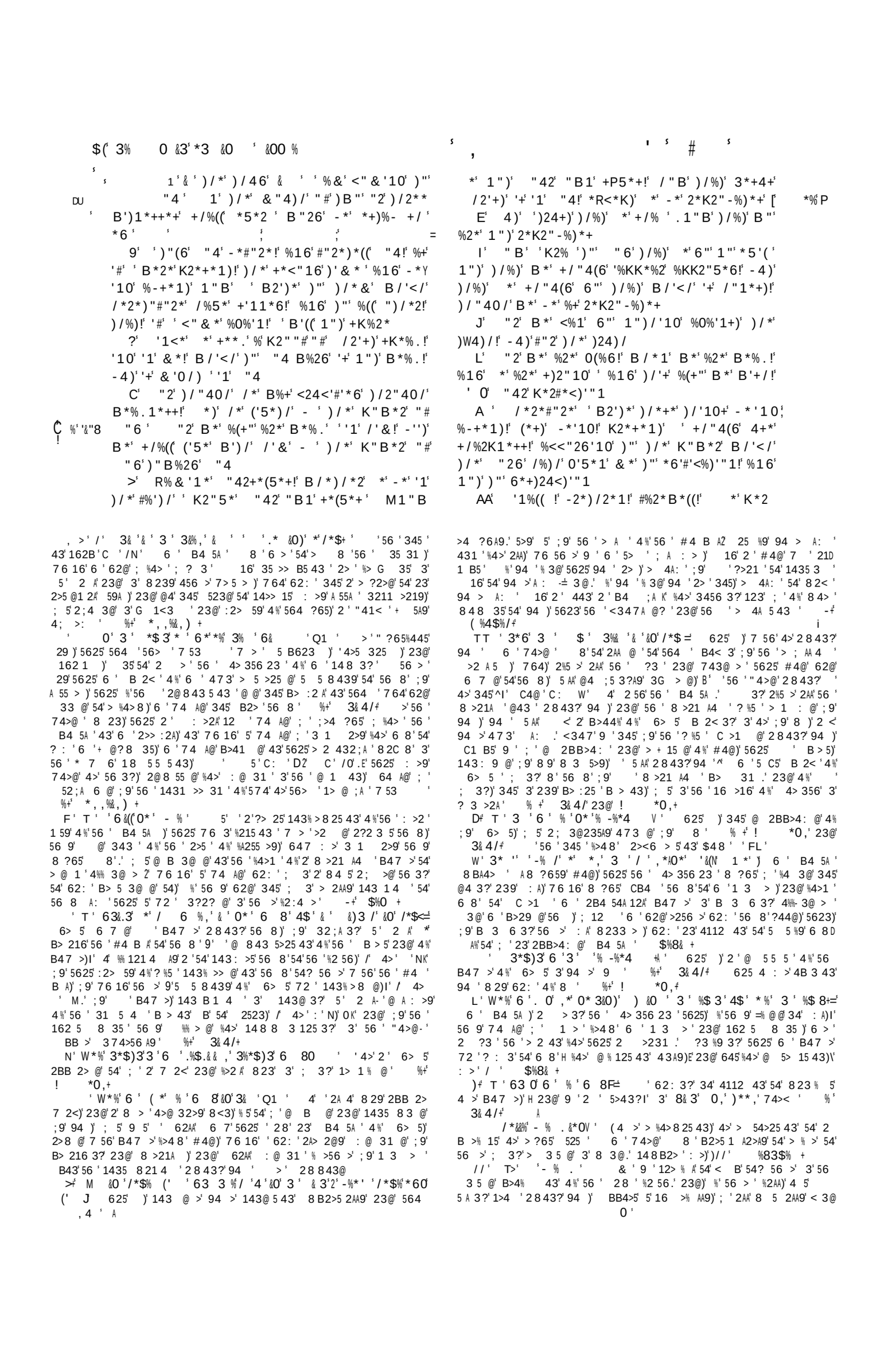

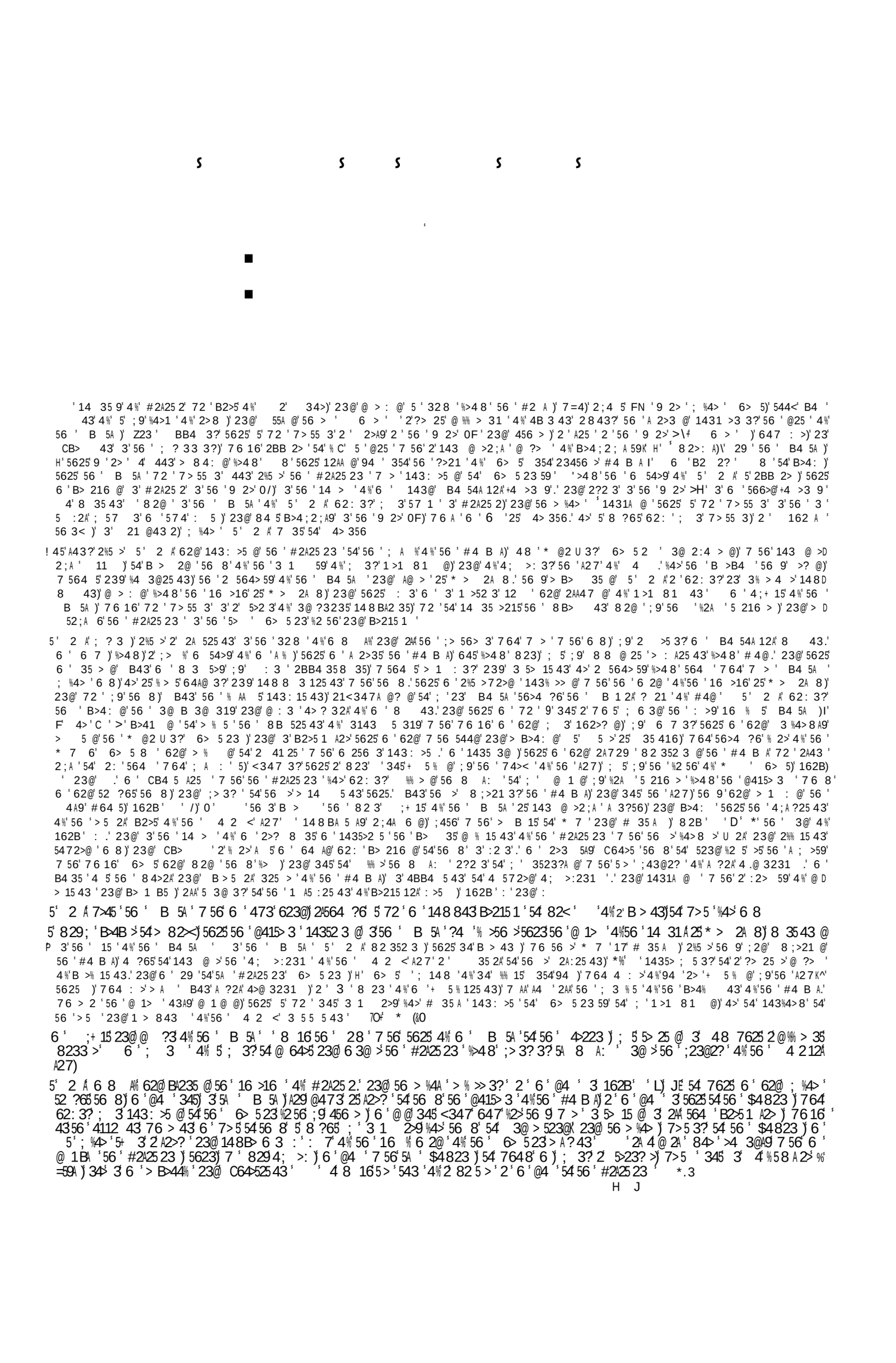

$(' 0, % 3' 3 ' 3 /'3 $ *' **0'('3& ' 0,' 3 ')* - (+

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XL' M' ! ' '*0, % &3' 3 ' 3 /' 3 ' ' K' **0'('3& ' 0,' 3)* - (' L' 0,' ..$% 8' 3* ' 3 '-% .3' 0/'* 3 %)* E - (' 3 0' 3 ',&,+ //' ! '(%0 ,' 3 ')* - ('0*'* ' 0' 4$' * ' *,& /N 0,' 3 6 3' 63 '3 ' 6 '4 *% +3&' A' . ((&0)' /W 0,' 63 '3 ',&,'-% 0(/' %'&+ !' %1' %K"+)(*!' ^1 ")' "#' &*1!' 1*')/*2' - ' &%1!' -4)' - ' 3*+4+' /2'+)!' %16' "6')/*' %)/*2!' B/"' 2%'+*6' /'&'#2"K")/*' 6*%6 N 9' 16' %((')/*' -2*)/2*1' B/'</' %2*' B')/' &*!' 41)"')/*' </42</*+' "#' %(%)'% ?' 2%<*' 3')"' "4' %16' K*%<*' #2" &' "6')/*' %)/*2!' %16P"B' "42' "26'3*+4+' /2'+)!' C' /"' 0%5*' /'&+*(# #"2' "42' +'1+!')/%)' /*' &'0/)' 6*('5*2' 4+' #2" &')/'+' K2*+*1)' *5'(' B"2(6!' %<<"26'10')"')/*' B'((' "#' "6' %16' "42' %)/*2 :' "' B/"&' 3' 0("2 '#"2' *5*2' %16' *5*2' &*1!

E' ' &%25*(')/%)' *'%2*' +"' +"" 1' 2*&"5*6' #2"&'/'&')/%)' <%((*6' "4' '1)"')/*' 02%<*' "#' P' /2'+)!41)"' %1")/*2' 0"+K*(I' /'</' '+' 1")' %1")/*2' -4)')/*2*' -*' +"&*')/%)')2"4-(*' "4!' %16' B"4(6' K*25*2)')/*' 0"+K*(' "#' /2'+) J' 4)')/"40/'B*!' "#'%1'%10*(' #2"&'/*%Y 5*1!' K2*%</' %1 ' ")/*2' 0"+K*(' 41)"' "4')/%1')/%)' B/'</' B*' /%5*' K2*%</*6' 41)"' "4!'(*)' /'&'-*'%<<42+*6 L' +'B*' +%'6' -*#"2*!' +"' +% ' ' 1"B'%0%'1! #'%1' & 'K2*%</' %1 ' ")/*2' 0"+K*(' 41)K' "4')/%1')/%)' *' /%5*' 2*<*'5*6!'(*)' /'&'-*' %<<42+*6 A ' "2'6";' '1"B'K*2+4%6*' & *1!' "2' "6['"2'6"' ' +**.')"' K(*%+*' & *1'[' #"2''#' ' *)' K(*%+*6' & *1!' '+/"4(6' 1")' -*')/*' +*25%1)' "#' /2'+)

62B' ' %5 >' ?:3?' 6 8 A%' 2' 5 5A)' A : AA @' 2?2 3 5' 56 ' ?? 5 43 ' 4%' 56 >' %2A ' 5 216 >' 4%' 56 ' * @2 U 3?' % 15 43)' 5' 2 A' CB> '6 '743@ >' 5625' 56 '#2A25 23 ' 64 A@' 62: '> A2B @' %>48' 56 '5> ' 6> 5 23' @415> 3 '4%' 8 3' ; 3?'+ 5 % @' 23@' 2: @' ; 9' 56 ' 6> 5 23' > A ? 43' 2A43)' 354' 56 ' * 7 6' B> 31 BA ' 4%' 56 ' 3 1 59' 4%' 56 '1 > 843 2A' A27' K 54' 1 >' 56, 8' 4%' 76 16' B> + @ 1 ' '56 ' 8 2 3' B5 >B4 '4%' 56 ' B 5A ' = ' 3 C5' 5 AA '56 8)' 5625' 6 '62@'> 1 : @' 56 '@415> 3 ' ; 9'56 '> : A25 43' 4%' * ' 6> 5)' 23@' 345' %>48' 239' 823'+' B43' 7 6 16' 4112 43' 6 ' B 5 ' 56 8' 3' 8 3@' 647' U 2A4 ' 6 '62@' ; 3' %4>8 >A9' %4>' 56 '1 > 843 ' 23@' 5>2@ 5 43 ' 4%' 56 ' * 7 K 5625' 6 ' +2@' : 3' ; 3' 2' % >4 ' B > D 1 54>' 4%' 56 ' 6> 5 23)' ; 5' 5625' #4@' 62@' 12AA @' 6 8' 54' 56 ' <347 D A @? ' 4%' 56 '5> 56' ? 23@' 5625)' 8 8 @ 25 A9' 2%5 >' 6 '143: > 43)' 6 ' 62@' B> 216 @' 56 ' #4 B A' 3' : >2A' BA21)' 7 564 5' 143 A5 3?' 239' 823)' 345' : 3' 239' B4 5A ' 5' 2 A' B 2< ' 56 ' 54' 6 7' 5625' 6 ' 72 ' 12AA @' ; 9' 6> 5' 2A43)' 23@' 345' ; 9' 5' 5 >' 4>' 239' 456 >' 6 823' ; 3?.' 23@' 5625' 6 ' 62@' 56 ' 28 ' 2 564> 59' 7 56' 56 ' > 5 ' %' 56 ' B4 5A)' 76 16' 56 ' %2A ' 5 216 >' 74 A@' 345' 2AA47 ' 4 # , >' / ' T' 8 ' ' ' ' [' 4>' ' > 1 : @' 345' 89' 12AA' 4>' 8 9' 148 8 43' 54' 5625' 4%% 1 ' %>48' 72 ' ' 164 3' 54' 5' ; 9' 823)' 2 ' 2556 2 ' %+' VE>' / 6 ' ' > 8 @' : >' / /.' H' 3 56 >' B> 216' ' 239' @415> 3 '@ D : @' 4>' 52 ?65' 8 ' ; 9' 823'.' 34.' > 1 : @' ' 2 564> 59' 4>' 12AA 3?' %>48' 239' 823' 54' B> 216' 56 ' #4 B A)' 3 56 >' %>48' 56 ' 764A ' 14AA ? ' 4%' 56 ' B4 5A)' 2 ' 2556 2)' 34>' %>48' 48 ' 4%' 56 8)' 2 ' &2>32;2 ' 23@' A2 '+' 23@' 2 ' 8456 ' 23@' 5 ' %>48' 8 I' 6 > %4> ' 5625' 8 B4 5 43' 4%' 623@ ' B43' 6 8 ' 15 ' C ' ' 72 ' 345' 23' A 1D 5 43' 4>' 143 1>25 43' 4%' 6 3' 54' 56 ' B4 5A 6 B'.' ; 5' 43A9' 2' B>29D 3?' %4>' 6 ' ?44@' 11 ' 3)' 23@' > 148 8 3@ 3?' 6 8' 54)' 5625' 8 D BA498 35)' 54' 76 16' 6 ' 72 ' ; 9' 56 ' 4A9' #64 5' @ > @ ' 15 ' C : ' FM' -+' = ' G' ' ' ' ' 8)R' 6 ' 74>@' ; > D F' > 56> 3I' 6 > ' 8 ' 54' @ 345 ' 564 ' 5625' 2114 8 B23 @' 5' 2 A' 3' 6 '5>2: A)' 23@' 2 5 @' 6 8' 3' B> 216 3?' 56 ' #4 B A' 6 ' 3' 6 A' : ' J ' FF)' H' 56 ' ; > 56> 3' 76 16' 2> ' 7 56' 8 I' 8' 54' ; ' @ 5 3? 6 @' %>48' H' 2AA' 56 ' 2 35)I' 4>' ; A : > ' 3' ? 3 >2A' F ' A N' T' ' ' ' # ' ' ' ' ' # ' 4' + @ 8' '%>48' 56 ' B 3 68 35' 23@' 143@ 8 325 43' 5625' ' + 5A9' 54' %2AA' B43' 56 ' : 14 ' 23@' 4; 5 325 ' 3; A : > ' 4%' 56 ' B> 35' 2? ' 3 ' 3 ' ' 56 ' 28 ' 7 56' 5625' 4%' 15 ' ' N)' H' 56 ' 354D 72>@' ? 3 >25 43 I' ' (\' T' ' ' ' ' B ' ' ' = ' PR' >)' [')4%' 4 >' #4@' 23@' ' 256 +.-' F ' ' 64' 7 AA ' 4 >' 2315 % 12D 5 43)' / 6 ' : ' .' ; ' C ' 0 L I & 23@ 5625' 5' 64 A@' ; ' ; >4 ?65' 2; 4 5' ; 9' 4 >' "4>@' * ' ' 6> 5)' ; ' C ' / ' F ' / ! M' * ' # ' ' ' ' ' # ' Q1 R' 4 5' 4%' 6 ' B D 5A ' 6 ' ; ? 3 ' 7 56' 5623< ? : 3?)' ; 5' ; 3?' 54' 16 @ ' 56 ' #2A2D 5 23)' 6 ' 2A5 >' 6 ' 59A .' 345' 12AA 3?' 56 8' 2 35)' A 15)' 4>' 16 >16 ' 4%' #4@)' ; 5' 6 ' %> 5' 5 ' @473' 56 ' 8 2 3' B>4B4 5 43)' 5625' ; 9' 6> 5' 2A43)' 23@' ; 9' ' @ 256)' 162B ' ')' 7 564 5' 4 ; 9 3?' 56 ' A27)' 2>' 7 ' + 5 % @.' 2 @' @ A : > @' ; 456' %>48' 56 ' : A' 143 G 31 ' 23@' B47 >' 4%' 3.' 345' 5625' 7 ' 64 A@' 3' 8 4>' %> A9)' ; 5' 5625' 7 ' 64 A@' %4> 2<' 56 ' : A' 1 548 ' 23@' 143: > 25 43 ' 4%' 74>A@A9' 8 3)' 23@' A : ' 2114>@ 3?' 54' 56 ' 7 AA' 4%' #4@ ' -+' W ((+ T T ' %* ' 3& ' 3 ' . ((,' / &= 625')' %>48' #4@K' %4>' 56 ' B4 5A ' 2 1> ; ' 56 ' 74><)' 345' 54' 6 8 A%)' ; 5' 143 5235A9' 54' #4@' 56 ' ' 256 >' ' $48' C' FN.' ' 4>' : ' /0.' #2A' ' /0.' ' 6 ' .' : ' .' : ' FN.' ' 6 ' 6' /N.' ' 8 ' ' ' %+' 3& 4/+ T '&0 *' 3 ')% . ' * ' 8%& = 625')' 56 ' 14: 3235' 4%' ?>21 ' 3' 6> 5' %+' ((+ M)W ' T' $0 *' 0* 3 %)* - (' 3&.3'& ' 0*' 0* 3 % 354' 23 ' 456 >' @415> 3)' 1431 >3 3?' 56 ' 143+4 3 3?' 4%' 56 ' A27' 7 56' 6> 5)' 7 6 16' ' ; 9' 56 ' 5 216 > ' 56 > 4%' 12AA @' 2' ?4 B A.' ; 5)' 3' 5> 56)' 5' ' 34' ?4 B A' 25' 2AA)' 3 56 >' 123' 56 > ' ; ' 239' 456 >' #4 B A' ; @ ' 5625' %> 56' 4%' #4@)' 7 6 16' 9 ' 62: ' > 1 : @' %>48' ' -+' ! ((+ \+' $' 3*$)3' 6 '*%' 0' 0) ('%* '3 ' 0' -% .3' Q1 R' 5' 2 A' @4 ' 345' BB4 ' 5' B4 ;A ' %4>' 23' 23? A' %>48' 6 2: 3)' 4>' 23' B4D 5A ' B43' 2>56)' 54' B> 216' 239' 56 3?' 1435>2>9' 54' 56 ' 5> ' #4 B A.' ; 5' 6 ' BB4 ' 23' 8 B4 ; A 59' 43A9' %4>' 56 ' 143% > 8 25 43' 4%' 7625' 6 ' 62@' ; %4> ' 2%% > 8 @' $%8&& ']]' (' 3& ' 4 ' ..$% ,H' 64 ?6' 7 ' 8 29' A44<' B43' 56 ' > D B 5 5 43' 4%' 56 ' 23256 82' 6 >)' 54' ; ' %4>' 56 ' 2@@ 3?' 4%' %4>1 ' 54' 7625' 6 ' 29)' 9 5' 7 ' 8 29' 4; >:)' 5625' ; 9' +4 3 3?' 6 8 A%' 7 56' 23' 23? A' 3' 56 ' %4> ?4 3?' : >)' 6 ' 2 ' 8 16' 2 ' 5 AA ' 56 8)' 5625' 6 ' ' 345' ? A59' 4%' 7625' @ >: ' 5)' ; 9' < A% AA9' 3 3 25 3?' 5 ' 56 ' #2A25 23)' 5625' 56 9' 8 ?65' 2 ' 7 AA' B 15' 23' 23? A' 8 ?65' B> 216' 54' 56 8' 2' ?4 B A' @ %% > 35' %>48' 6)' 5625' ' 2' %2A ' ?4 B A)' 2 ' 5625' 6 ' 6 8 A%' 64 A@.' 23@' 56 3)' 3' 56 ' : > A29 ' 56 ' 23256 82' 7 64AA9' 23@' 4A A9' B43' 56 ' * @2 U 3?' @ 1 > ' *.8 + ' W*%, *' '0*6'- % &$&, ' 0 A*%' *,]' Q1 R' 3' 4>@ >' 54' B>4: ' 6 '473' 31 > 59' 3' B> 216 3?' 56 '5> ' #4 B A' 4%' 6> 5)' 56 ' B4D 5A ' 29 '5625' 6 ' 3 @ ' ; 5' 54' B 5' 56 ' G 5 43 '54' 56 ' #2A25 23 ' 9' 4' '347)I' 3' 56 ' C 1 5 43' 4%' 8 9' B4 5A 6 B)' H' B > 2@)I' 5625')' 3@ 2:4 >' 54' ?2 3' 56 ' %2:4 >' 4%' 9' 8 3' 4>' #4@' A' 4>)I' 54' B 2<' 84>' BA2 3A9)' H' @4' ' <' 54' BA 2 ' 8 3' B' 431 >3 3?' 56 ' 8 23 3?' 4%' 56 ' 74>@' 9' B > 2@)I' 148 B2>' 255)' CC: ' /N.' 15 ' C ' ' %+' ((+ 3' 56 ' A255 >' B2 2?)' 56 ' B6>2 ' \' 62:D 3?' 82@' &A2 5 ' 56 >' %> 3@)I' ' A 5 >2AA9' [' 62: 3?' B > 2@ @' &A2 5 '.-' 5625')' 54' ; %> 3@' 56 8 ' %+' 5 .80&)3 + * %' & ' ' / ' -(' 0 = %' ' 8 2@' 56 ' 56 ' 14B ' 23@ @> %5' 4%' 8 9' A2 ;4 > ' -+' ! ((+ %' ' @ @' 4' H' 9 5)I' 5625')' 2' ; %4> ' 8 9' 143: > 43 ' %+' ((+ 6 ' 74>@ ' 9' 347\' 23@' 9' 9 5I' 123345' ; ' 3@ > 544@' 7 564 5' 2' > % > 31 '54' 48 56 3?' 3' 5' 2 A- ' B2 5' A % .' 7625' 5625' 72)' 76 16' 6 ' 62@' 5A 3' B2>5 1 A2>A9' 3' 6 ' 8 3@)' 7 ' 8 29' ' ; 9' 56 ' 2114 35' 6 ' ? : ' 4%' 6 8 A%)' 3' 7625' 8 8 @ 25 A9' %4AA47)' 328 A9

\/)-/ 3 $4 '! $, %## (

AA 4) "4!-2*)/2*1!)/%))/*
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J "2 1*')/*2 2*<*'5*6')" "#&%1!1*'Y
)/*2 B%+)%40/)#-4)-)/*2*5*(%)'"1
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'1')'&*K%+)'1')/*3*B+2*('0'"1!/"B')/%)
-* "16 &*%+42*K*2+*<4)*6)/*</42</ "#
"6!%16 B%+)*6')
! AC 16 K2"#')*6'1')/*3*B+7 2*('0'"1
%-"5* &%1 & ')*V4%(+'1, &'1*"B1 1%Y
)'"1! -*'10 &"2* *R<**6'10(D*%("4+ "#
)/*)2%6')'"1+"#& #%)/*2+
A: 4) B/*1')K(%+*6 "6! B/"+*K%Y
2%)*6 &* #2"& & &")/*2+ B"&-! %16
<%((*6 - /'+02%<*

0,A63 3 ,&,7-% 0(/ %& +

AE "2*'P*%(/'+ "1''1'&*!)/%) & &'0/) 334
K2*%</ /'&% &"10)/* /*%)/*1' '&&*Y OL
6'%)*(" <"1#*22*6 1")B')/ #(*+/ %16
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*')/*2 B*1) 4K)"3*24+%(*&)"
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3*24+%(*&)" +** *)*2! %16%-"6*B')/ /'& % $0 0
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JU "B)/*)/'10+; B/'</ B2')* 41)"
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J #)*2B%26+ <%&* '1)")/* 2*0'"1+
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5625; %4>'6 '143: > 43)'6 '72 8BA49 @'; 9'8 3' 3'56 >' @ D
?3)'23@' 82@ ' 5'6 '; 3 '54' BA 2 '56 8)'2 ' 829'; ' 3'
15 ' C ' /)'F ' & 5'76 3' #4@' 12AA @' 6 8' 6 ' > 1 : @' 6 ' 148*'
8 43' 23@' 3 5> 15 43' %>48' 8' 2A43)'23@' 5' 8 8 @ 25 A9'
2;4 5 5)'7 564 5'143 A5 37'239' 823'7625 4 : >)' B> 216 37'5625)'
23@' 5625' 43A9)'76 16' 6 '62@' > 1 : @' %>48' 6> 5' 4' 5625' 5'
74 A@'; ' 3 A '%4AA9' 3'6 8)'23@' 34' A '5623'56 '%4> 2< 37'4%'
6 ' 2 5 >'* ' 6> 5)'%'6 ' 64 A@'347)'2 '72 '> B4>5 @'4%'6 8)'
8 C' 239'56 37'4%' 8 3 '7 56'56 'B >' @415> 3 '4%'56 ' #4 B A)'
76 16' 6 '62@' > 1 : @' 8 8 @ 25 A9'%>48'* ' 6> 5)'54' BA 2 '
56 '* 7)'2%5 >'6 '62@' 4' A43?' B> 216 @' 43A9' 5625.' 23@' 62@)'54'
2:4@' 2 '2BB 2>231 '4>' B> 5 31 '54' 56 '1435>2>9)' 4' 12> % AA9'
6 33 @' 2A' 1488 3 125 43' 7 56'56 '16 >16 '4%'* @ 2.' 23@' 62@'
345)' 35 A'2'?44@'76 A '2%5 >)'23@' 5625' : >9' B2> 3?A9)'143: > @'
7 56'239)'23@'564 '; 5'2'% 7)'4%'56 ' B4 5A '56 8 A:)' 48 '
4%'7648'6 '4B 3A9'>B>4: @'%4>'56 >'* @2 U 3?' 6 '56 '32>D
>25:)' ;+4 3 @'54'56 ' : >)' CBA2 3 '56 ' H'347I'23@' 9'9 5\'
3'5)'23@' ((5 3@ '54'56 ' 28 'B >B4 ' 7*.8 +
//' $' '. %& /'/*$'3% &3% 0' Q1 R' 6 ' B4 5A '6 >'4;:25 '
23'4;+ 15 43)'5625)'345';3?'43 '4%' 6> 5-' 8 8 @ 25 '%4AA47 >)'
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A25 3 '4%'6 '12AA 3?' %+ ! *0,+
/F' W*%' '0 &3 %% . &', '&'* ' 0' Q1 R' 6 '8 23 3?'4%'56 '
B4 5A ' 'BA2 3A9' 56)'5625'6 '@ @' 345' > 1 : '6 '1488 43'
%>48)'5625')' ; 9'56 '8 @ 25 43' 4%)' 8 3)' ; 5' 8 8 @ 25 A9'%>48'
#4@' 3@' %' 6> 5'7 > '34 '84> '5623' 823)'23@'143 @ > @'2'
16' 3'56 'B2 2?)'56 ' B4 5A -'74>@ '123345'; ' 82@ '143 4D
3235' (& +
/ 'W*%'/ '3 ''3 %,'* ' /'.*0' % &*0' Q1 R' 6 '2>? 8 35'
)'5625'5'14 A@'345'7 AA'; ' BB4 @'5625'2' B > 43)'4'; ?455 @'
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#4 B A)'8 16'A '5 >3'23' B4 5A '4%'5)'; 9'239'; 5' C5>24>@ 32>9'
8 23 ' /(+
/N' 0,'-%* & ,'&0' 3 ' %' T % (&)&*0A ' >)' Q' 82@ 'B>4% 1 319-
3'5' %+ ((6 '@4 '345' ?3 %9'56 '> A? 43' 4> ? 32AA9'
52 ?65';9' 4)'; 5'5625'76 16'72 'B>215 @' 2843?'56 '* 7 '
25'56 '5 8)'; 3?'8 16'4%'5'; A5'43'56 '5>2@ 5 43 '4%'56 ' A@ > '
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T P 4*' ' 0/' /' K$ ('&0' &0 '*60'0 &*09' ;4: '8239'
* 7 '4%'56 ' 28 '2? '7 56' 89 A% ' %+ 3& 4/+
'*+ 3 ' % ,&&*0 '* ' /' 3 % +F= 64 '4>2A' 5>2@ 5 43)
'76 16'56 ' 62> '4'6 ?6A9':2A @)' : 3'2;4: '56 '"27'23@'
56 ' >4B6 5 ' '56 '345 '43' 2><' : ' '.' 15 'CC ' + %+F
3& 4/+ 6 ' B4 5A ' 8 35 43 ' 6 ' U 2A' %4>' 56 ' 56 3?)' 54'
143: 31 '56 ' #2A25 23 ' 5625' 6 ' B> 216 3?'4%'+ 5 % 125 43' 7 56D
4 5 56 ' 74>< ' 4%'56 ' A27' 14 A@' ; ' 255> ; 5 @' 54' 3456 3?' ; 5'
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' T '63*' - % ,' 8 R' ' '62@'%4>8 >A9'@43 ' * > 8 26'
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56 '345 '56 > ' 64' 3' @ ?3' B2>25 @ 8 '%>4 8' 8 9' 8456 >-'
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' *' % ' (3& ' *0' &0' J $256 >)'Q';9' 8 -'' %+ ! &/'
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)'7 56'239'823)' 4' 2'54'>1 : '239' 8 43'%4>'5625'74><)'4>'
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6)'23@' 7625'6 ' 29 ' 3'56 '%4AA47 3?': >)' '54' : @ 31 '54'
56 '#2A25 23 '56 '% AA' 2 >231 '6 '62@'4%'56 '5> 56'23@'B >% 15 43'
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> : A25 43.' 23@' 647'A 55A '6 '72 '@ B4 @' 54'62: '239'> ?2>@'54'
56 'BA 2 3?'4%'8 3' 3'B> 216 3?' 5)'5625'6 ' @ @' 345' 4' 8 16'2'
148 8 3 125 ' 4>' 2@: ' 7 56' 239'4%'56 ' B4 5A '2;4 5 5)'54'\ '
76 56 >'56 9'2BB>4: @'4%'5' *.8 +
'T' '6 0'&0 *' % 4& ' %'5A '+4 >3 9' 354' >2; 2)' 5'
" <'345'; 3?'7 56'6 8' 29 '3456 3?' 3'56 ' 15 '4%'56 ' B4D
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23@'@415> 3 ' 6> 5 23 59' 8 8 @ 25 A9'%>48'* ' 6> 5' 8D
A%)'7 564 5'56 '2 5231 '4%'239'6 823'5 216 >)' 4'743@ >% AA9'
2?> 3?' 3'2AA' 5';>2316 '7 56'5625'76 16' 6> 5'62@'52 ?65'43'
2>56';456'; %4>'23@'2%5 >' '> >> 15 43)'72 ' 4' C5>24>@ 32>9'
23' : 35)'23@'4%' 4' ?> 25' 8 B4>5231 '54'564 ' 7648' 5' 2 A'
: 5 @)'23@'54'7648'6 '7>45)'5625'43 '123345'743@ >'6 ' 64 A@'
56 3<'B>4B >'54'2 >5 5' 3' 4' 4A 83'2' 8233 >' '62: ''?> 25'
> 2 43)'76 A '7 '> 2@'56 '255 525 43'6 '62 '? : 3'54'56 '5 56'4%'
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5)'4>'4%'6 ' 31 >59' 3'B> 216 3?' 5.'5625')'76 3'56 '; 3 %5'4%'
4 A '> G > @' 6 8' 56 '54' 255 5 54' 8 3' 7625'456 >7 '56 9'
14 A@'345'; '2 > @ 4%)'56 ' B4 5A '> % @'345'54' 7 2>)'23@' 4'
5 8 @'345'4 >' 2: 4 >-'B>46; 5 43' 4%' 23'4256'54'; '2; 4A 5 '
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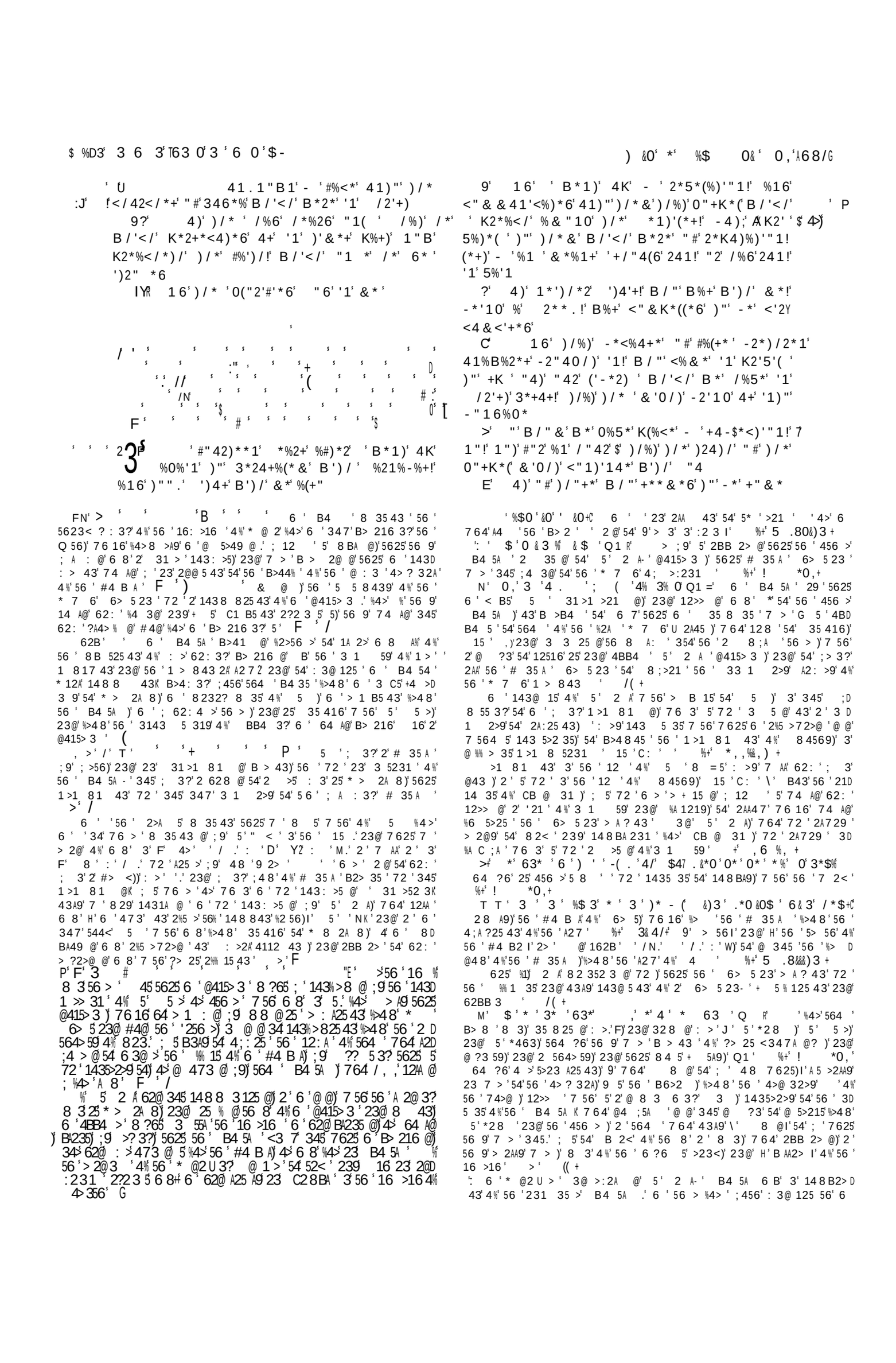

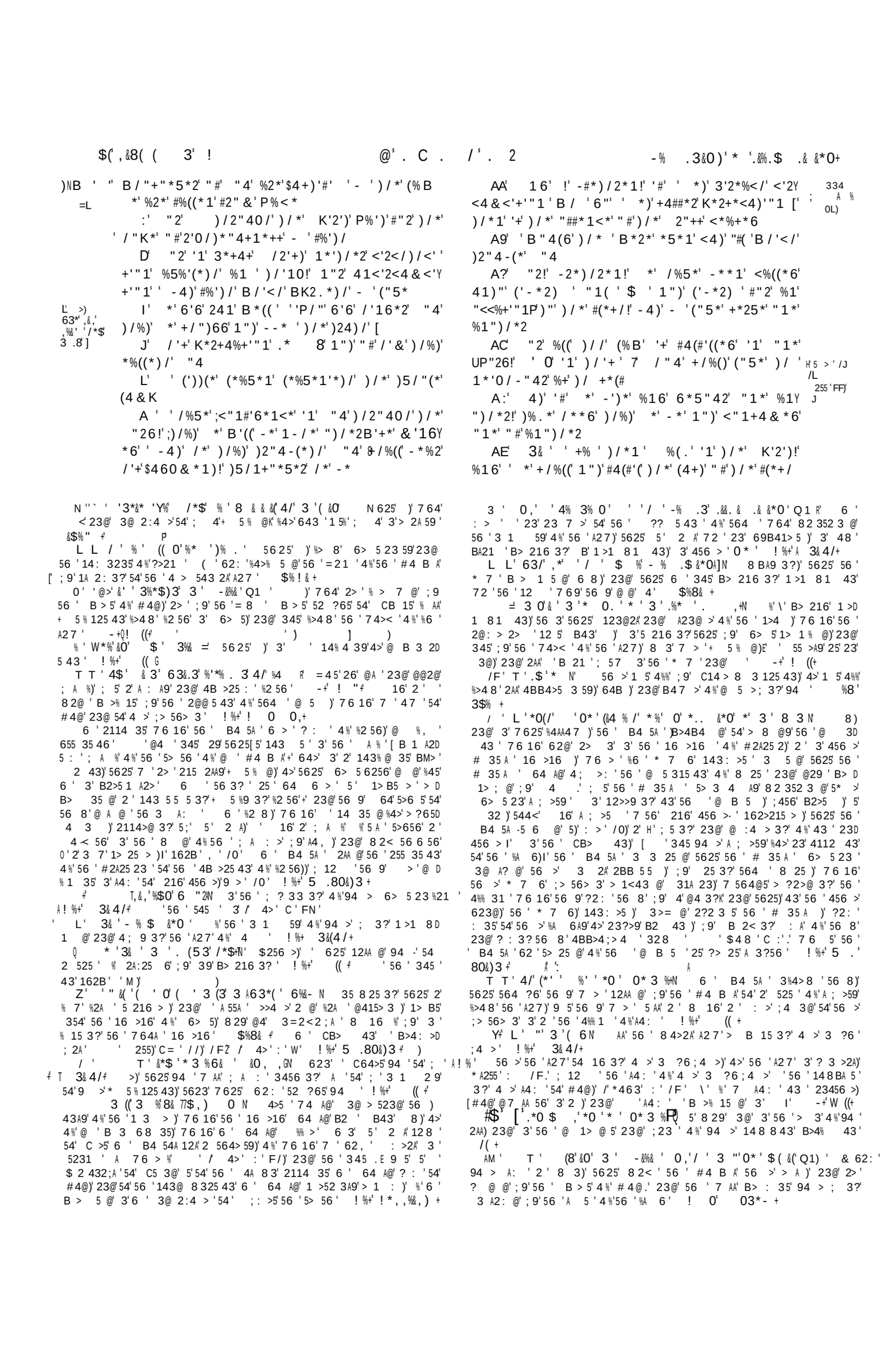

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C <<"26'10 %+ /* /%)/ </"+*1 4+ '1 /'& -*#"2*)/* #"416%)'"1 "#)/* B"2(6!)/%) B* +/"4(6 -* /"(%16 B')/"4) -(%& * -*#"2* /'&'1("5*

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N' ..*%,&0)' '3 '3 3'.3* 0'$ 'Q1 R' 5' 72 '56 ' 4B 3 43' 4 %'56 ' * 7)' 5625' #4@' 62@' A 15 @' 56 8' %>48' 56 ' ; ? 33 3?' 4%' 56 ' 74>A@)' 23@' 35' 56 ' 26' 5625' 343 ' 4%' 56 8' 64 A@' B > 6 ' 5' 2 A' 56 > %4>)' 54' 52< '%>48' 56 8' 2AA' 12 '4%' ;42 5 3?' 2?2 3 5' 56 '# 35 A '43' 5625' 2114 35)' @ 1A2> '5625' 56 '# 35 A '7 > '56 ' A 15 @' 3' 6> 5' *)' : 3' ; %4> '56 '%4 3@25 43 '4%' 56 '74>A@.' 5625')' 5625' '@ ?3 @' 56 3' 54' 1644 '56 8'%4>' '16 >16' 23@' B 4BA)' 328 A9)' 23' 64A9' B 4BA '54' 56 ' "4>@' %+' 3&4/' 5' 2 A)' ; 3?' 56 ' B4 5A '4%' 56 '# 35 A)' '56 '5 >8)' H' ;A @')I' H' @64 3' .--' 56 ' 3' 6 ' 2A 729' 82< 3?' 6 8 A%' 2 '43 ' 4%' 56 '# 35 A '143: >5)' 56 ' 8 4> '54' 143%>8' 23@' 314 >2?' 56 8' 54' > A9' B43' 56 '#4 B A' 7 564 5' 56 '1 > 843 2A' A27 ' %+' ((' /(+

6 '\: >;)' 6 > '> 3@ > @' H' 6256' 164 3)I' ?3 % '54' 1644 '4 5' 54' B 1 2A' B> : A ? .' 2 '#4@' 164 '56 '231 35' >2 A5)' 2 '2' 32D 5 43)' 54' ; ' 'B 1 A2>' B 4BA ' 15 'C ' .' 4>' 2 ' '164 ' 6> D 5 23)' 2 ' 6> 5 23)' 54' BB1 A2>' ;A 3? ' ; %4> '56 '%4 3@25 43' 4%' 56 '74>A@)' 54' 56 ' 3@)' 4>' 756' 2' @ ?3)' H' 5625' 56 9' 8 ?65' ; '64A9' 23@' 7 564 5' ;A2 8)' Q1 I' %83$% (+

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M' *' 3 '-% & '* ' 3 ')(%/' * '3& ')% . ' ' ! '1> 25 @' 2AA' %4>' 56 ' ?A4>9' 4%' 'B47 >' '?4: 8 56' 56 8' %4>' 56 ' ?A4>9' 4%' ' 7 @48 ' 'B 3 6 56' 56 ' 4; 5 325 '%4>' 56 ' ?A4>9' 4%' '+ 5 1)' 23@' ' 2: 56' 456 > '%4>' 56 ' ?A4>9' 4%' '8 >19' 23@' ?>21 ' 4' 5625' 56 ' 3@' 4%' A 15 3?' 23@' 2@4B5 3?' '56>4 ?6' 6> 5')' 5625' 23? A '23@' 8 3' 8 ?65' 84>' ?A4> %9' ' ?>21 ' 23@' ;4 359' 3' 211 B5 3?' '56>4 ?6' 6> 5' 56 ' 43' %>48' 5 >3 59K' 345' 56>4 ?6' 4>' %4>' 56 ' 2<' 4%' 456 >)' 764' 7 > ' 25' 56 ' ; 5' ; 5' %2 56% A' >D :235)' 23@' 56 8 A: ' 2A 4' 211 B5 @' 56>4 ?6' 8 ' &B 'W ((

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W' T' 3%*$)3' 3& ' 4(**, N 6 ' B4 5A ' 6 > ' > ')' 5625' ; A : > '4;52 3' 56 ' ;A 3? ' B 1 % @' 3' 56 ' : >)' 56>4 ?6' 56 ' 6 @@ 3?'4%' 6> 5-' ;A44@.' 23@' 6 ' 35 35 43' 3' 3 35 43 3?' 56 ' 72 '54' 143: 31 '56 ' B6 23)' 5625' 56 '* @2 U 3?' 5 216 > ' 14 A@' B>48 '56 8' 34' 2@:2352? ' 56>4 ?6' 56 '4; >:25 43' 4%' 56 'A27)' 76 16' 56 9' 14 A@' 345 8 4> ' %% 15 2AA9' 4;52 3' ;9' 4; 9 3?' 56 ' #4 B A' %+' 5 .80&)3+

..*%,&0)' *' 3 '%&.3 '* '3& ')% . 'Q1 _R' 6> 523)' 7 62: '> 1 : @' 2' 1A 2>' @ 14: >9' 4%' 4 >' @ 59)' 23@' 4%' 2' % 5 > ' 525)' 2' B>48 '4%' : 3 '2 5231 ' 3' 5 8 '4%' 3 @)' 56>4 ?6' 56 ' 764A ' 14 > '4%' 4 >' A : .' 4%' %4>? : 3 ' B43' 4 >' 28 3@8 35)' 23@' 4%' 5 >32A' 62BB 3 ' B43' 4 >' B > : >231)' 345' 3' %2 A5A ' 4; @ D 31)' ; 5' 3' 31 > ' 3@ 2:4 > ' 54' 8 B>4: ' 3' <347 A @?' 23@' : >5)' 23@' 54' B >%4>8' 56 ' > 2 432;A ' >: 1 ' 76 16' ' > G > @' %>48' ' 6 '2@:2352? ' 4%' 6> 5 23 59' 2> '6 > ' 525 @' 3' % 7' 74>@)' ; 5' 56 9' 2> ' 16' 2 '34' 6 2>5' 123' @ A9' 1431 :)' 34' 543? ' 123' % AA9' 55 >' 6 '7 > 5 > '4%' 56 ' 7' 528 35' 8' 54' A2D ;4 >' %4>' CB> 43)' 23@' 54' 62: ' %4 3@' 56 8 A: ' 32;A ' 54' 143: 9' 54' ' 3' B>4B >' A23? 2? ' 56 ' 35 8 35 ' 4%' 2' 6 2>5' 4: >D %A47 3?' 7 56' +49' 23@' ?>25 5 @)' 76 3' 56 9' B 2<' 4%' 56 ' A4: ' 4%' #4@' 823 % 5 @' 3' * ' 6> 5' 64 4 : >' > ?65A9' 3@ > 523@)' 23@' @ A9' 143 @ > ' 56 ' : 3 ' A4:)' 7 AA' 3' 48 ' @ ?> ' ; ' 2%D % 15 @' A < '56 8)' 7 AA' ; ' 3 ;A 5625' 6 '123' ; ' 64' ?44@' 6> D 5 23' 764' > 5 >3 ' 345' %> G 35' 5623< '54' #4@' 5625' 6 ' 2' 6> D 5 23)' 23@' 7 AA' 7 6' 5625' 6 ' 7 > 'A < '43 '4%' 564 ' 15 : '1> 25 > ' 8 35 43 @' 3' 56 ' $: A25 43)' 764' > 5' 345' @29' 23@' 3 ?65)' 23@' 2> '411 B @' 3' ? : 3?' H' ;A 3?)' 23@' 6434 >)' 23@' f?A4>9)' 23@' B47 >)' 354' 8' 5625' 55 56' B43' 56 '56>43)' 23@' 354' 56 '"28 ;' %4>' : >' 23@' : >I' %+' *% &0+

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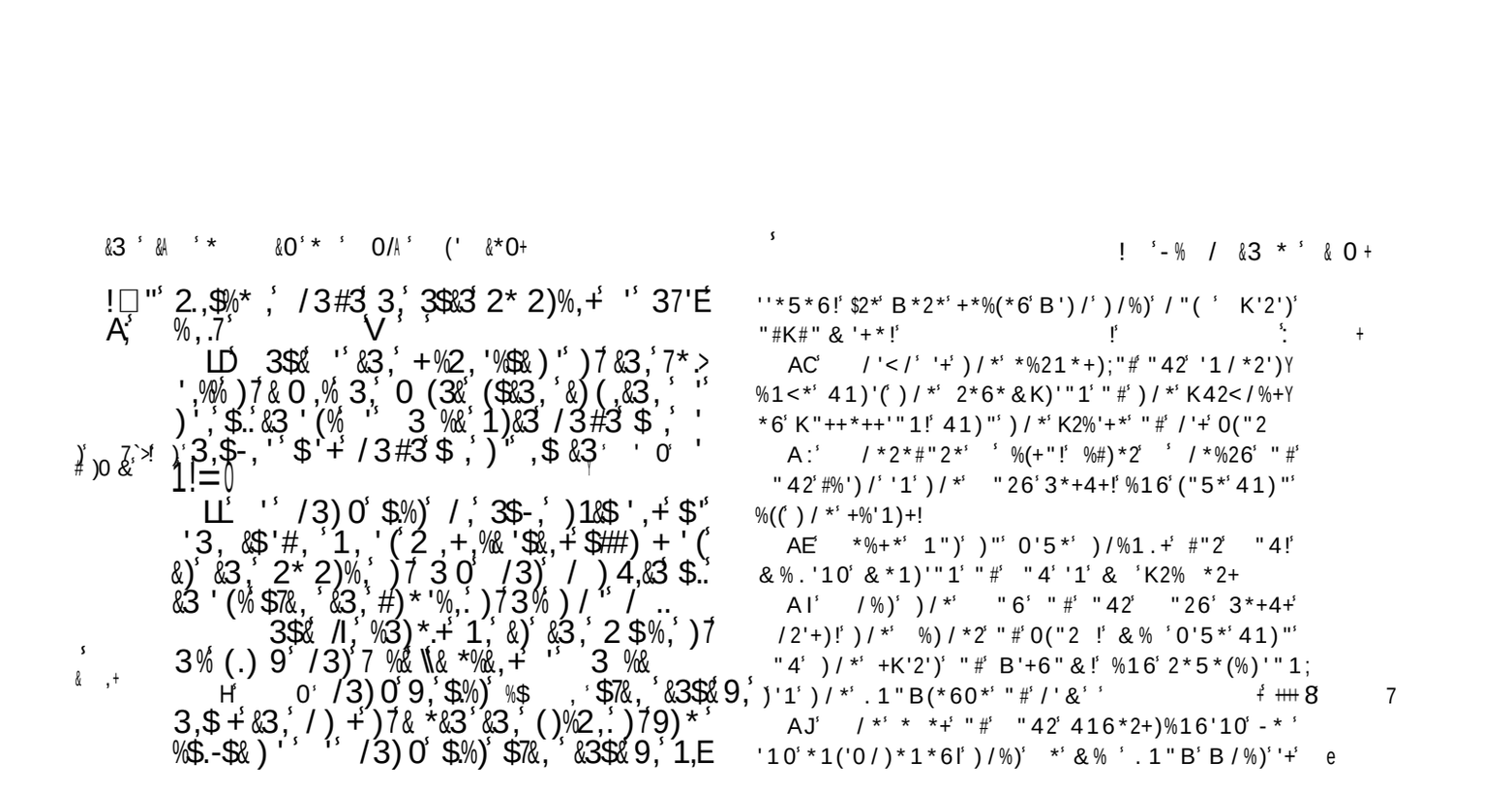

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)'647' 1 AA2 5' '56'B47 >)'76 16'#4@'78@@' 6 7' 3'>2 3?'
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3' : 7' 56' > >> 15 43' 4%' ; A : > '%>48'@ ' @ 2@)' ' : @ 35'
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3@' C2A5 @' 8' 3' '6 823'325 >'54'56'B2>5 1 B25 43'4%' '
3%3 5' ?A4>9' 23@' 82+ 59' 3' 56' A ?6 5' 6 2: 3 ' -+' ! ('
6 ' '2' @ 1A2>25 43' ; 9' 3 B >25 43' 4%'56'%215'> 14>@ @)' 2><
C: ' ' 3';456'B2 2? '56 >' '23'2AA 43'54' '1C'/' 3@'
31' 6> 5' 25' 25'56' ' > ?65'623@'4%' #4@'2%5 >' ' > >> 15 43'
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5' 3'56''3 C5': > ' %+' 5 .3,)3&+ P
'76 16'128 '@473'%>48'6 2: 3)'23@'@ 1 3@ @' 354'@ 'A47 5'
B2>5'4%'56' 2>56)' \'2 1 3@ @'%2>'2;4:''2AA'6 2: 3 .'5625)' 55 3?'
25' @ ' > ?65'623@'4%'#4@)' ' 8 ?65'%>48'56 31'% AA' 2AA' 56 3?'
7 56'@ '?>21 4 '23@'62BB9'%> 5'4%' ' 2: 3?'B> 31' D
1 3 43' 354'6 2: 3' '2'BA2 3'A412A'5>23 A25 43'4%' 6> 5)'2114>@ 3?'
54' ' 823644@)'%>48'56'A47 >'54'56'6 ?6 >'B2>5'4%'56'74>A@'
43' 25' 56 '> ?65'623@'4%'#4@)' '56' 215 2A' C >1 '4%'5625'
> ? 319'23@'@48 3 43'76 > 3'56'8 23644@'4%' 6> 5' +4 3 @'
23@' 8 2516 @' 7 56'56' @ 59'4%'56' 43'4%'#4@' 45'5625' '
823644@'72';%4>'7 564 5'56' B4 43'4%'56' 28=B47 >)'
; 5';12 '56'% AA' '56 > 4% 72' B 3@ @'5 AA'5625'6 8 A59)'
76 16'62@; 3';%4>'2'2':2 A'54'6 @'23@'1431 2A' '82+ 59)'
7 >'A2@'2 @' %5 >' '> 3?'2?2 3'%>48'56'@ 2@)'56 3'@ @'
#4@' 5' 8'25' '>?65'623@' 3'6 2: 3A9'BA21)'%2>'2;4:''2AA'
B> 31 B2A 59)' 23@' B47 >)' 23@' 8 ?65)' 23@' @48 3 43)' 23@' : >9'
328 '5625' '328 @)'345' 3'56''74>A@'43A9)'; 5'2A 4' 3'5625'76 16'
'54'148 '2' 23@'6256'B 5'2AA'56 3?' 3@ >' '% 5)' 23@'6256'2BD
B4 35 @' 8'4:>'2AA' 8 ' 2@'54'56'16' >16)'76 16' '6 ';4@9)'
56'% A3 '4%' 8'5625'% 56' 2AA' 3' 2A"' 6' 1 B5>'4%'76 16'
B>5 2A'?4:>38 35'4:>' ' 3'56'B> 35'74>A@)' '25'A 3?56'
54';'9 A@ @' B' 354'56'623@'4%'56''256 >'76 16'?2:' 5+'5625'
'54' 29)'56' '23@' C >1 '56 > 4% 62AA'1 2)'56 >';3?'34'
A43? >'43' 2>56'239' 8 A5235'16 >16'54'?4:>3' !**8 %+
F/' W %' 4*' ((' -%&0.&- (&/'Q ''2>)'3% 3 5 A9'%2>'2;:'2AA'
564 '> A>'23@'B45 3525)'5625'62:';' 5'%2@ 3?'B4 = >)';9'7648'
'72'6 >'B 5'54'@ 256.'9 2)'2;4:'%> '6?6 5'@ ?> '4%'
23? A12A'B47 >' %+' ! *0,# ;4:' 2AA'B47 >'5625' '4>
' :>' 62AA';' %+' 3&4/+ -
FF' 0,'3 3'-$' ((' 3&0)'$0, %3&' F=' 6 ' ' 2@ 3'2AA D
43'54' '1C'/)'H' 35'A' '82<' 6 3' 3 8 ' 69'%445 544A\'
48B2>'/ 4>'C:'F0)'FW' %+' 5 .80& 3+
T T'3 ,'*'%' ((' 3&0)'*' 3'.3$%.3A' 625')'54'56';' 3 %5'
4%'56'16 >16' 3 +' 3&4/+

F ' 3&.3' &' 3&' d)R' 6'16 >16' ' 3 ';4@9'4%'*
6> 5'3'56'%4AA47 3?' 8233 >K / 5)' '%> >4 @' 5' ;9' 8 A%)'
2>@';9'56'8 3 5>9'4%' B4 5A '.' '@> 7' 5'345'4 5'4%'56'
@ 5'4%'56' 2>56)' ; 5'76 16'72' 2' @ %% 1 A5)'4 5'4%'2' 525'4%'
@2><3)' >>4 >)'23@'14>> B5 43' 1 9)' 'G 1< 3 @' 5';9' '
B47 >)'23@';9'56'?%5'4%'5A' 4A9' B> ' @A9)' 'B >162 @'
5'7 56' '473';A44@)'62: 3?'9 A@ @' 8 A%' B'54'@ 256'%4>'5'
2< '"2 5A9)' '625A'14AA 15 @)'23@' 3 5 @)'23@'5 @'54?56 >'2AA'
5'8 8;>';9'56' 28'A27)'56' 28'%2 56)'56' 28' 21>2D
8 35)'56' 28'64B '4%'2'> >> 15 43'54'A % ' 5 >32A)'23@2;4:'
2AA)';9'8 5 2A' 162>59)'7A 16' 5' 2 A' 12A<'56';43@'4%'B >% 1D
5 43' %+' *% &0+
T'' 3'$(0 '*'3& ' 3 ' "(3' ((' &0' '4>' '2 D
1 3@ @' B'43'6?6)'5625' '8?65'%AA'56'8 8;>'4%' '16' >16'
7 56'2AA'?%5'3 1 2>9'%4>'56' @%125 43'4%' 2 35)'5 AA'56 9'
64 A@' H 148 '54'56'8 2 >'4%'56' 525 >'4%'56'% A3 '4%'
6> 5)I'162B':'/ T /' 3' 8'2AA'% A3 '@7 AA)'23@'7'2>'
% AA @'% AA' 3' 8)'764' '56'6 2@'4%'B> 31 B2A 5 '23@'B47 >'
4A' 'J)'/ ' %+' 3&4/+
6'56 3?'6 >'2 >5 @' ;9'56' B4 5A)' %'@ A9' 143 @ > @)'
7 AA';'%4 3@'54'62:'2'?> 25' 3%A 31' B43'4 >'8 3@'23@'21'
5 43)'2'239'2>5 1A '4%'4 >'%2 56'7625 4 :>' '4>' 6> 5'4 >'
2:4 >' C2A5 @'25'56 '>?65'623@'4%'#4@'^ > '2AA'56 3?'B 5' 3)'
@ >' '% 5&' 625'2'?4> 4)'7625'2'8?659' 2:4 >'56 3'62:'
7 '3'6 2:3' /) 47'7 AA'829'7 ';A :'23@' 5> 5'43' 8'%4>'
2AA' 56 3?' 3 1 2>9'54'4 >' 2A:25 43'/T ' 6> 5'?:3'54';'
2@'4:>'2AA'56 3?'54'56'16 >16'^ 47'56 3'123'56'?25 '4%'
6 AA' :>'B> :2 A'2?2 3 5'5)'4>'2?2 3 5'239' 4 3@' 8 8;>'4%'5^'
625'123' f='7235)'7625'3 @'7'% 2>)'764'62:' 8)'5625'6256'
2'56 3?' 3@ >' 8)'2A729'>2@9'54' BBA9'23@'6 AB' '^' 625'
123' '345'@4'%4>')'5625' '7 AA'^' 3@'7625'7 AA' '345'@4'
%4>')'5625' '123^T '56'16 >16'56);4@9'4%' 6> 5)'H 56'
% A3 '4%' 8'5625'% AA 56'2AA' 3'2'^I' 625'A4:''23@'12>'56 3'
8 5' 6> 5 3 @'62:'%12^ '16 >16)'34 > 6 3?'23@'16 > 6D
3?' 5' :3'2' '473'%A 6d 3@'7625'A4:' 64 A@' 2AA' 56'
)8 8;>'4%'56'16 >16'62:'%4>' 8)'2'7 AA'2'%4>'43 '23456 >'%'
625'12>'54' >:')'3*0*$%'23@'4;9' 8'd 'A47'4;>A9)'647'
>?65 4 A9)'647'?4@A9' 64 A@'56 9'A:')'764'2>' 4'3 2>A9'>A25 @'
54' 8)'5625' '6 2@'4:>'2AA'56 3?' 3'56 '74>A@'d 3@'764'
74 A@'345';' 3'56'3 8;>'4%'56 8'^' -+' '%&,) +

62B' ' 3'5A '162B5 >'56' B4 5A' A 7)' 5)' 625'76 3'
2AA' 8 3)';456'*7'23@'#35A)'7>'@ 2@' 3'56 >' 3)'#4@'
2:@'56 8';9'* ' 6> 5.'23@'6'4;>:' B2>5 1 A2>A9)'5625'
56 9'7>'3@ ;5 @'%4>'56'?> 25';3%5'54'56' 4A'8 >19'4%'#4@)'
764'62@'@A:>@'62:'%>48'2' 525'4%'143@ 8 325 43'23@'14>> BD
5 43)'23@'62@'?:'3'56 8'2'12B21 59'4%'@4 3?'?44@'74>< ' @A9)'
'B 5'56' B6 23' 3'8 3@'5625'56 9'7>'%4>8 >A9'6 256 3)'
23@' C1A @ @'%>48'56'14: 3235'4%'#4@'.'23@' B 2<'4%'56'%4'
:4 >'#4@'62@' 6 73'56 8)' 3'> 84:3?'5A '@ 5 315 43'76 16'72'
;57 3'56 8 23@'56'* 7)'23@' 3' 3 5 3?'56 8' 4'2'54';';' 5'
43'B 4BA)'23@'%>48'56 31 %4>72>@'54'148 B4 '2AA'4%'56 8'54? 56 >'
;5'43'%28 A9'23@'43'5 8BA)'64A9'54'56'"4>@' & %' (,+
, >' ' &,'/*$' 3 3' 3'K$&.8 & , F=' 6'74>@' H'6256' '
G 1< 3 @I'2>'345' 3'56'4>?32A)';' 5'2>' BBA @'%>48'56'056'
: > .'H'94'764'7 >'@ 2@)I' 3'56'%>5': >)' 4' @ > 15A9'2>

// 6*2+)%16 & .1"B(*60*'1')/*& +)*2 ;"#
/2'+)! ! :/'<//'1")/*2%0*+B%+1")&%6*
.1"B1 41)"')/*+"1+"#&*1!%+')'+1"B
2*5*%(*6 41)"')/*)/"(!%K"+)(*+%16K2";
K/*)+-')/*K'2')$
E/%))/**1)'(*++/"4(6-*#*((BP
/*'2+!%16"#)/*+%&*-"6!%16K%2);%.*2+
"#/'+K'P&'+**'1/2'+)-')/*"+K*(
I/*2*"#B%+&%6*Z%&'1'+)*2!%<Y
<"26'10')"')/*0'#)"#)/*02%<*"#"6
0'5*1'41)"'&*-')/***##*<)4%(B"2.'10'"#
/'+K"B*2
J1)"'&*!B/"'%&'(*++)/%1')/*(*%+)!"#
%((+%'1)+!'+)/'+02%<*'0'5*1!)/%)'+/"4(6
K2*%</'%&"10')/**1)'(*+)/*41+*%2</Y
%-(*2'</*+"#P/2'+)$
L16')"'&%.*%((0'+**B/%)'&')/*
#*((B+/'K"#)/*&+)*2!B/'</#2"&')/*
-*0'11'10"#)/*B;"2(6/%)/'-**1'/'6'1
"6!B/"<2*%)*6'%((')/'10+-'3*+4+
/2'+)

O b3 0'/'% ,A /%)'+!'#"4 2*%6'%16"<"1+'6*2' %+
!*0,+ 7
:' 3&.3'&0'*3%') '6 '0*' ,'80*60BN)'B%+'16**6
.1"B1'("10 -*#"2*')%)')/* *1)'(*+/"4(6-*%66*6')"')/*
</42</!-4)'')'B%+1")'.1"B1')/%)')/*'+/"4(6-*/*'2+"#)/*
+%&*'1/*2')%1<*!%16'K%2)%.*2+"#)/*K2"&'+*"#)/*K'2')'3'
3*B+2%)/*2)/"40/)'"#)/*'2-*'10'+(%5*+)"')/*&'%16'(%%+)'"#
%((6'6')/*''&%0'1*!)/%)'/*&'66(*B%((*#)/*'2<*2*&"1'*+
+/"4(6-*-2".*1'6"B1!%16')/**1)'(*+-*%6&'))*6)"')/*#4((
K2'5'(*0*+"# "6+K*"K(*B')/"4)'<'2<4&<'+"1'%16"-*6'*1<*')"
)/*"+%'<.'(%B'B/'</')/*/2'+)'%1'<"15*2)+%&"10')/*3*B+
/*%26"#%)#'2+)'B')/'02*%)%&%D*&*1)'<)+'R'C:'R''AJ'%+
3&4/'%16"*,,%&,)+
-%*-3 N /"+*B/"'1')/*#'2+)'%0*+"#)/*/2'+)'%1
</42</'2*<*'5*6')/*K2"K/*)'<%(02%<*!%16'-')'416*2+)""6%((
&+)*2'*+!'A "2'R'''9' %+' 3&4/+
I'L ..*%,&0)'*'3')&'*'3')% .'*'"6P %&*(!')/*
K"+)"(%)*' **)/*1")*"1'"&'''+' %+' 3&4/+
J'O'63*' ('3 0'3'('*'((' &0 N *<%4+*
#"2&*2('K*2+*<4)*6')/*</42</' /2'+)!'A "2'R5!'K' %+
3&4/+ ;' ;
;'L'o'63&'3'((*6 3&-'*'3' / %/N #)/* %(('10"#
)/* *1)'(*+)"-*)/4+#*((B/*'2+B')/')/*3*B+' %+' 3&4/+
**)/*1")*"1'</%K!''L
OO'63&.3'%*' 3'4)&00&0)'*'3'6*%(,'3 3'4 0'3&,'&0' *,N
2'<"1<*%(*6'1' "6+*<2*')K42K"+*' %+' ((+
A' A' *'3'&0 0'3 '0*6'`<!?!"')/**16")/%)'1"B')/*0("Y
2'"4+%10*(+"#/*%5*1!%#)*2)/%)' "6'/%6'"1<*4))*2*6%16'6*Y
<(%2*6)/%)' '+0""6'K42K"+*)"&%1.'16!&'0/')+**!'1')/'+B"1Y
6*2#4(2*6*&K)'"1'%2'6-(*++*6'41'"1'"#)/*</42</!%<(*%2K2"'#
%16'6*&"1+)2%)'"1'"#)/*&%1'#"(6%16'1'#'1')* B'+6"&'"#"6'
-+!((+
/"40/')/*%10*(+!B/"'9'6*+'2*')"("'.')'1)"G')/*)K*+%16'#Y
042*+'"#)/*(%B!A *)''39!&%'/%5*/%6'%0*1*2%(1")'"1'"#
)/* '5'1*K4'K"+*+2*+K*<)'10&%1.'16'#2"&')/*%1<'*1)'2*5*(%Y
)'"1+!*)')/*%<)4%(*R*<4)'"1'"# "6+K42K"+*+'1')/*<"&'10!"#
'+ "1!'1' '+6*%)/%16'2*+422*<)'"1!%16'1')/*<"1+)')4)'"1'
"#)/* /2'+)'%1'</42</'-')/*41'"1'"#)/*3*B+%16' *1)'(*+
)/*2*1'')/2"40/#%')/!&4+)!%+)'%4(/*2* %##'2&+!B/*1'*RY
K(%'1*6'1')/*K2*%</'10"#)/*K"+)(*+!/%5*'1<2*%+*6')/*
.1"B(*60*"#)/*/*%5*1('K"B*2+!-'%##"26'10')/*&'1*B'K2"'#+
"#)/*B'+6"&'"# "6!B/'</'+'1#'1')*('5%2'"4+!%16'B/'</!%)/'
'((4+)2'"4+('6'+K(% *6')+*(#'1'-2'10'10')/*+* 02*%)'*5*1)+)'"K%++'
2!5 .80& 3+

A' "')/*'1)*1)')/%)!1"B'41)"')/*
$1'1<'K%(')'*+'%16'K"B'*2+'1'/*%5*1('P
&'0/)'-*'.1"B1'-')/*</42</')/*&%1'Y
#"(6'B'+6"&'"#"6! 7
3'<<"26'10')"')/**)*21%(K42K"+*'
B/'</'/*K42K"+*6'1'/2'+)'3*+4+'"42'
"26
A9'1'B/"&'B*'/%5*'-"(61*++'%16'%<<*++'
B')/'<"1#'6*1<*'-')/*#%')/'"#/'&
A?/*2*#"2*'6*+'2*)/%)'*'#%'1)'1")'
%)'&')2'-4(%)'"1+'#"2"4!B/'</'+"42'
0("2
AC"2')/'+<%4+*'-"B'&'.1**+'41)"'
)/*'%)/*2"#"42"26'3*+4+'/2'+)!
A:'#'B/"&')/*'B/-(*'#%&'('1'/*%5*4'
%16'*%2)/'+1%&*6!
AE/%)/*'B"4(6'02%1)'"4!%<<"26'10'
)"')/*2'</*+"#/'+0("2 !)"'-*'+)2*10)/Y
*1*6'B')/'&'0/)/'-'/'+K'2')'1'/*'11*2'
&%1'
AI'/%)'/2'+)'&%'6B*((1'"42'/*%2)+'
-'#%')/''))/%)'*!'-*'10'2"")*6'%16'02"416Y
6'1'("5!

A'"')/*'1)*1)')/%)!1"B'41)"')/*
$1'1<'K%(')'*+'%16'K"B'*2+'1'/*%5*1('P
&'0/)'-*'.1"B1'-')/*</42</')/*&%1'Y
#"(6'B'+6"&'"#"6! 7
3'<<"26'10')"')/**)*21%(K42K"+*'
B/'</'/*K42K"+*6'1'/2'+)'3*+4+'"42'
"26
A9'1'B/"&'B*'/%5*'-"(61*++'%16'%<<*++'
B')/'<"1#'6*1<*'-')/*#%')/'"#/'&
A?/*2*#"2*'6*+'2*)/%)'*'#%'1)'1")'
%)'&')2'-4(%)'"1+'#"2"4!B/'</'+"42'
0("2
AC"2')/'+<%4+*'-"B'&'.1**+'41)"'
)/*'%)/*2"#"42"26'3*+4+'/2'+)!
A:'#'B/"&')/*'B/-(*'#%&'('1'/*%5*4'
%16'*%2)/'+1%&*6!
AE/%)/*'B"4(6'02%1)'"4!%<<"26'10'
)"')/*2'</*+"#/'+0("2 !)"'-*'+)2*10)/Y
*1*6'B')/'&'0/)/'-'/'+K'2')'1'/*'11*2'
&%1'
AI'/%)'/2'+)'&%'6B*((1'"42'/*%2)+'
-'#%')/''))/%)'*!'-*'10'2"")*6'%16'02"416Y
6'1'("5!

A9' O .. 6&3'.*0&, 0.N "'"6')/* %)/*2!Q'-')/*
#%')/!"# '&G)/%)'+!')/*#%')/'B*/%5*'1' /2'+)'%+*42' *6'%!
)"2' %+' 3&4/+
AJ'O'63&.3'&'/*$%')(*%/+N /*K"+)(*+4##*2'10+'1'&%'1Y
)%'1'10')/*K2'5'(*0*+"#)/* *1)'(*'<"15*2)+B*2*'%K2""#"#3''+
+'1<*2')!%16'%<"1#'2&%)'"1'"#)/*)24)/'"#)/*6"<)2'1*'/*K2*%</Y
6'%&"10')/&'/*K/*+'%1+')/*2*#"2*'&'0/)'B*((')/'1.')'%1
/"1"42'6"1*')"')/*&!%+B*((%+%1'16'+K*1+%-(*'*10'0*&*1)')"
)/*&')"<"1)'14*'#'2&'1')/*'2K2"#*++'"1' 0' 03*-+
AC'W*%'3&'.$''4*6'/'80 N /*2*-'*RK2*++'10')/*2*Y
5*2*1)'#2%&*"#/'+/*%2)'1'K2% *2' $%8&+
A:'63* Q3' 3*('&(/'&0'3 '0'0,'%3'& A ,N
/*%10*(+'1'/*%5*1!%16'+%'1)+"1'*%2)/!-*'10'+)(*6)/*+"1+
"# "6'%+' 3&4/+ 2!((')/*+%'1)+"#*%2)/!B/*)/*2 3*B+
"2 *1)'(*+!%16'%((')/*0("2'#'*6+%'1)+%16'%10*(+'1'/*%5*1!
&%.'10')/*+%&*#%&'(' 1%&*(!)('*"1*41'5*2+%(</42</"#
/2'+)'-+!!(('$%8&+
AE'3'3'6*&,,')%0'/*$'`<?)'%4(/*2*K2%+')/%)
)/*"('/'+)'B"4(6'<"15*''1)'")/*&'16+'#")/*K/*+'41+
'+4</'%66')''1+'#"5'1*02%<*'%+'&'0/)'-*'%+4##'<'*1)'K2*+*25%Y
)'5*%0%'1+)')*&K)%)''1+%16'1#'2&')'*+')/%)*'B"4(6'1<2*%+*
)/*'2-'(')'*+)"2*+'+)'%16"5*2<"&*!'1'K2"K"2)''1'%+)/'<"1Y
#(')+%16)/*'2 1*<*++')'*+'1<2*%+*!B/'</'/*<%((+Q'+)2*10)/*1Y
'10'B')/'&'0/)G%16')/%)')/*'+&'0/'-*'1'+4</'%-416%1<*'%+'+
%1+B*2%-(*')"')/*02*%)1*++'"#)/%)'K"B*2!B/'</'*1%-(*+!%16'#
)(%)'0""61*++!B/'</'6'+K"+*+!"6')"('-*2%(')!'1'+4KK('10'%((
)/*'R'0*1<'*+'#'+#%')/#4(+*25%1)+'"2'+4</'*R4-*2%1<*'#
-"41)'%KK*%2+)"'-*'&*%1)'-')/*+)2*10)/'"#)/*K'2')'-*'10
6'+)2'-4)*6'Q'%<<"26'10')"')/*2'</*+"#'+0("2 G 0' 0E
3*-+

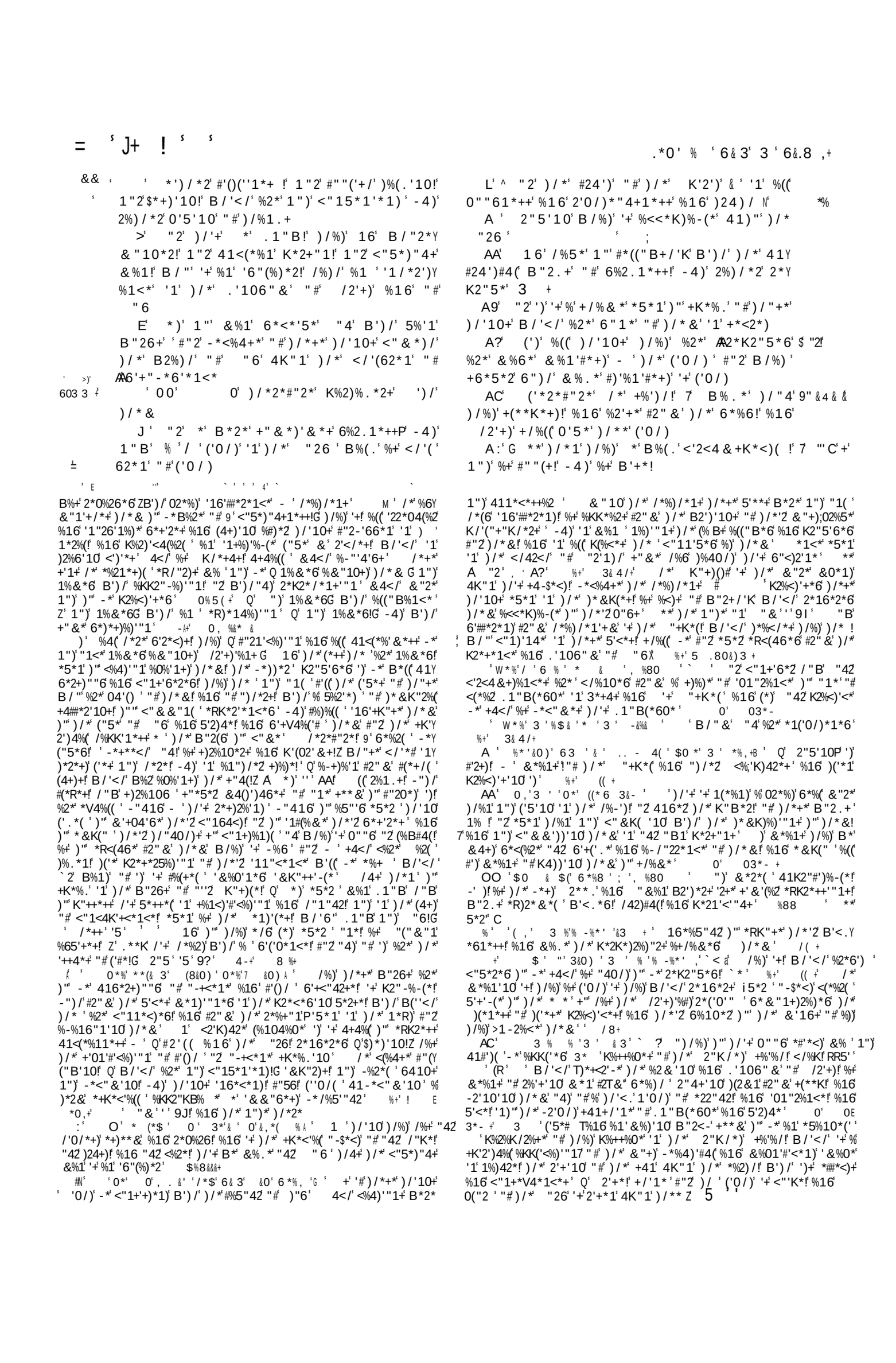
3'3%&'/',6((&0'/*$%'3%'3/'&3'!=& **3"/1'
R'5'9?'K/''''99' *1<*')'%KK*%2+!)/%)')/*<"&&41<%)''1'
"#)/*02%<*"#)/%)'K'2')!B/'</'+'1+*K%2%-(*#2"&')/* %)/*2
%16')/* "1!'+)/*&%11*2"#)/*'2 6B*((10'1'&*1+/*%2)+'
/'+&4+)'-*416*2+)""6)"')%.*K(%<*B/*1'%AA"42'%##*<)''1+%2*
+4-$*<)'%16'6*5")*6)"/2'+)'B/*1'"42#%')/'+#'2&'%16'<"1Y
+)%1)!%16')/**1(' K'2'1<'$'(*B/*2*-'B*'%2*'0"5*21*6'+"%+)"
5%(4*%16'6*+2*1")/'10'1'<"&K%2'+"1'"#B/%)' *'B"4(6'/%5*
4+6"!%16'B/%)' *'/%)/'K2"&'+*6)"'0'5*4+' 0' 03*-+
OO'3'/'4&0)'%** ,'0,')%*$0, ,'&0'(*' N /%)'+!+"#*2Y
5*1)'%("5*"# "6!%+^(' .*'%)2*')/%)'+*)'6**K%16'/%)/')%.*1'
+)2"10'/"(6!"2('.*'%!/"4+*'B/"+*'#"416%)''1'+-2"%6!#'2&!%16'
B*((B2"40/)'+1")'-*+/%.*1'-')/*&"+)'5'"(*1)'+)"2&+"#
%65*2+')' K*2+*<4)''"P 0' 03*-+

$# !'#& ' ' # 6
EC & ' * F //%/ #(# * ! ' ! 8
>M'21 / "' -*'10 K%+) #**('10 /%5*' 0'5*1
P7-2)/*&+*(5*+ "5*2 41)"! (%+<'5'"4+1*++;!)"
3%,(B"2.'%((41<(*%1''*++ B')/'02**6'1*++
4) *' /%5*' 1")' +"' (*%21*6 /2'+)
9A #'E '% ' ' ' 'D ' '!(' 6 ''#(
:'D '% #' '"$ '% ' 6 ' ' ' !" ' ' #
^3 * + 4 + ! ' ! ' ;
' 99' /%)' *' K4)' "## <"1<*21'10)/*' #"2Y
&*2 <"15*2+%)'"1')/*' "(6 &%1! B/'</' '+
<"224K)'%<<"26'10)"')/*6*<*')#4((4+)+

O 3%*$)3 3'& &*% 0. 3 '& '&0 3 `<ad %5'10 ("+)'%((
+*1+* "#)/*%-+5k26') '%16'5'(*1*+'* "#)/*02"++*+)'+'1+' %16'+" 1")'
"1('K2"+)')4)*6)/*&+*(5*+)"')/* K2%<)'<*! -4)' - '<4+)"&' /%2Y
6*1*6)/*&+*(5*+ '1)'* % (' .'10 "#! %16 6*('0/)' '1! %16 *%0*21*++
%#)*2!)/* &")'#'()/ '<)21%(')'*+' ; ;
P /* %-+"(4)* 1*<*++') ! %+ BP(%+)/* '15%(4%-(* -*1*#')+! "#
)/%)7 '5'1#* 2*5*(%)'"1' %16;02%<*! B/'</' '+ &'1'+)*2*6 - ')/*
"+K*("# /2'+)! 1**6+ 1" ")/*2 *5'6*1<*)/%1')/* 6*+<2'K)'"1'
P'5*1' 1')/*+*)/2** 5*2+*+ - ')' %4(! "#)/"+* &'+*2%-(* <'2<4&Y
+)%1<*+!)" B/'</')/* /*%)/*1+ B*2* 2*64<*6 #"2 B%1)' "#)/*&'
/* B2*)<'/*6 '01"2%1<* %16 *22"42+! B/*2*- ')/* ('0/)' "#)/*
"26 B')/'1')/*&!)/* #%<4()'*+ "#2*%+"1' %16 $460&*1)! B*2*
%(&"+)' V4')* *R)'104'+/*6 ')/*)")%(6*K2%5%)'"1' "#)/* B'((%16
%##*<)'"1+! %66'<)*6 %16 #%+)*1*6 6"B1')" "-$*<)+ "# #(*+/' %16
+*1+*! %16 '22*<"1<'(*%-('%5*2+*)" %(( )/* *16+ %16 &*)/"6+!
)5/*2*'1')/* 6'01') '"# /4&%1' 1%)42*! %16)/* *R<*((*1< ' "# %
+K'2')4%(%16 6'5'1* ('#*! <"1+'+))/* 4))*2 '1+*1+'-'(') '%16 "-'
642%)'V1' "#)(*/*%2)' %16 <"1+<'*1<*! B/'</'<4+)"&%2 '+'11'10
K2"64<*+! K%2)('-' &*1+ "B1' "-+)'1%)* '164(0*1<* "#)/*'2
B'<.*6 (4+)+! %16 2*+'+)'10)/* </*<.+ %16 %6&*1)'"'1+ "#)/*'2
"B1' %16 "6+ K'2')! %16 K%2)('-') /%)'$46'<'%(/%261*++! B/'</'
"6'+ K2"5".*6)" '1#('<)' - ' B')/62%B'10)/"+* K2*5*1)'10 %16'
%+'+)'10 02%<*+! B/'</')/* ' /%5* <"1)'14*6)" %-4+* %16 6*+K'+* '
%16 (%+)(!)/* '1%-'(') "# *(224K)' 1%)420)" 6'+<*21 %16 %KK('
')+*(#)" &%))*2+ "# 2*('0"1! K(%'1(' 6*&"1+)2%)*6 - ')/* *R%&Y
K(*+ "# *&'1*1)' /*%)/*1' K/'("+"K/*2+! B/"!)/"40/ *R<**6'10('+
+/2*B6 %16 +%0%<'"4+'1' ")/*2 2*+K*<)+! B*2* *)'1')/+ &'+)%.*1'
%16 %-+426! *5*1')")/* &")' 6*+K'<%-(* 6*0';** "# </'(6'+/1*++
%16 #"((')/*+* %2* *RK*2'&*1)+!)"" K(%'1')" -* 0%'1+%'6! %16
+4</'%+ <"1+K'2* %)' "1<*)" 0'5* 4+ %'5*2 &*%1 "K'1'"1' "# 42
"B1' 1%)42%(K"B*2+! %16 "-('0* 1+)")/%1.#4(1*++ #"2)/"+*
+4K*21%)42%(%+'+)%1<*+!)" B/'</' B* "B*)/+5*2 <%K%<') !
<')/*2 "#K(%+'10 "6! "2 "#)/'1.'10 %16 %<)'10 (.* &*1' 0
03*- +
9L $ '/ '3 ' '0* * (%0 , 3%& ' (/* <"1)2%2)" %((
B/'</' * /%5* -**1')%40/)' - ')/* /2'+)'%1 2*('0"'1' %+! +'
*0, /'+ &% 'K*2/%K+ '1)'&%)*)/%)')/*2* B%+ % &%11*2 "#
(*%21'10 /2'+)! B/'</' &'0/)'+** &' &"2* <"1+'+)*1)' B')/+4</'2Y
2*04(%2')'+! %16 &% '0(%1<* "1' +"&*)*%<'/*2+! B/'" <%((*6)/*&Y
+*(5*+ /2'+)'%1+! *)')"".' 5*2 (')()(* <%2*)" '1<4(<%)* K2%<)'<%(
2*('0"'1' %1 'K%+ %0*6 '1')/* K"+)(* + B2)'10+ +/*B')/'+)"
/%5* -**1'%<)1%((')/* <%+*!)/"40/ ')' +**&+)/+*)*%<'/*2+ /%6
1")' &4</' #"")'10 %)' K/'*+4+' "&K%2* g '&' '5' H %+'
*,,%&,) +
9A' ' *'3 ' 3 ' / '3 ' ' 3 %,' W('&!d "2%+&4</' %+ * /%5* '
/*%26 "# '&' - '4+ '+ K"+)(*+' %+' ((+ **)/*1")* "1'
</%K' ''' 9' !
' ' 3 ' %$ 3'& '&0' $ ' <<"26'10)")/*)24)/' "#B/%)
"6'2*V4'2*+ 416*2)/* "+K*(' %+' ((+
+ 99!9C' 3 '/ '-$ '* 'O' 3 '*(,' 0' O' 0,' 3 '/ '-$ '*0' 3 '
0 6' 0F 9' /* "(6 &%1 +'01'#'*+)/"+* *5'(/%-')+! B/'</')/* '
+" ("10 K2%<)'+*6 '1')/* +)%)* "# /*%)/*1'+& 2' 9')/* 1*B' &%1!
)/%)' 6'5'1* ('#*!)/%)' (#* "# 2'0/)*"4+1*++ %16 /"('1*++! B/'</'
/2'+)'%1') '2*V4'2*+' %+' 3& 4/+ "1<*21'10)/* </%10* /*2*
+%'6)" -* B2"40/)' 4K"1' K*2+"1+ <"15*2)*6)" /2'+)'%1') ! ')'1% '
-* "-+*25*6!)/%)')/* &%11*2 "#)/* K"+)(* + *RK2*++'10 ')'1)'Y
&%)*+)/*'2 -*<"&'10 V4')* %1")/*2 +"[)' "# K*"K(*! '16**6)/*

9?' 1%' "*' 2*1*B*%' '1')/*' +K'2')' "#' "42' K" 4' "
&'16'$ <)' ;
9C' 16 ')/%)' *' K4)' "1')/*' 1*B' &%1!
B/'</' %#)*2' "6' '+' <2*%)*6' '1' 2'0/)*"4+Y
1*++' %16')24*' /"('1*++' ; 2L
9:' /*2*#"2*' K4))'10 %B% '('10! +K*%.'
;*5*2 ' &%'(')24)/' B')/' /'+' 1*'0/-"42' #"2'
B*' %2*' &*&-*2+' "1*' "#%1")/*2
' *' *' %102 ! %16' +'1' 1")' (*)' 1")'
)/*' +41' 0"' 6"B1' 4K"1' "42' B2%)/'
' *')/*2' 0'5*' K(%<*')"')/*' 6*5'(
9J' *)' /'&')/%)' +)"(*' +)*%(' 1"' &"2* ' -4)
<)' ;

5*2 '2*5*2+*' "#B/%)')/*' ('%6'-**1' -*#"2*' Q' /*"(6 &%1)" -*
K4)' "##!G '+ +%'6)" -*' 9' <"224K)' %<<"26'10)")/*6*<*')#4(((4+)+
)/"+*' (4+)+! B/'</'</*%)*6 &*1' B')/' #(%))*2'10 K2"&'+*+ "# +%)'+Y
#%<)'"'1')/%)')/*' <%11")' '*(6' %16')/*2*#"2*')/*</%10*' 1')/'+
K"'1)' <"1+'+)+ 1' +)"KK'10)/*' *%2+ %0%'1+)' %((#%(+*' 1'+'14%)'"'1+
#2"&')/%)' V4%2)*2! %-%16"1'10)/*' 41K2"#')%-(* <"224K)'"1! %16
/%5'10 #'4')' 41)" /"('1*++' /'+' &K('*+ &"2)'#$'10' %16 2*Y
1"41<'10 %((+'1#4(6*+'2*+' 2*K*1)'10 %16 *##*<)4%((' #"2+%.'10
%((K%+)' #*4()+' 4)' ;;' K4))'10 "1')('*' 1*B' &'1G '&K('*+ #*%)'
6*%(&"2*')' +4KK"+*+ %<)'5') '%16 6'('0*1<*' '1' K'*) '%16 5'2Y
)4*' 6"'10 0"'6 1" (*++)/%1' %-+)%'1'10 #2"&' *5'(' /'+ K2"5*+
/"B' +%16 '%#"416%)'"'1')/"+* /"K*+ %2*' -4'()' 4K"1! B/'</'(""."
#"2 +%(5%)'"'1' %16 '%<<*K)%1<*' B')/' ")(#"2 1")' -*'10 5'<"4+ "1(
%16! K2"5'6*6)('*' +'1+ "#*<"&&'++'"'1' -*' <%2*#4(('%5"'6*6! %2*' %+
('))(*' <"1<*21*6 #"2)/"+* "# "&'++'"1! %+'#)/*' B*2*')" &%.*' 1"
%2)'<(*' 1' "4'2 %<<"41)' 0' 03*- +
9?' 0,3 % 0 6 ,&0 3 -&%+&' * '/*$%' &0,' *' '1B%26('
%16 <"26'%(('</%10*6)" 1*B' 6*+'2*+ %16 K42+4')+' %+! *0,+
9:' L *%' ' ' % ' 4 %'*0' * ' 0*3 %' ')/*2 -' "42 41'"1
'1)" "1* & +)'<%(' -"6 ! "2 %+ &*&-*2+ "#/4&%1' +"<'*)' %)' (%20*'
%16 1")/'10'+ &"2*' K*21'<'"4+)" +"<'*) ')/%1' #%(+/""6! "2)*16+
&"2*)" 6*+)2" ')/*' +*<42') '%16 &4)4%(<"1#'6*1<*' B/'</' "40/)'
%(B% +)" -*' %&"10 &*1' 0' 03*- ' &%8& (+
' /' 0)%/' 0,' &0' 0 * 10*2 '+ % K%++'"1! B/'</'+
<%K%-(* "# +*25'10 *R<*((*1)' K42K"+*+! B/*1' &%1%0*6 B')/ +"Y
-2'*) '%16 6'+<2*)'"1' %16 B/'</'(" /"1"&' "# "6!)/*2*5*Y
2*1<* 64*)")/* (%B+!)/* ("5* "# 5'2)4*!)/* K2")*<)'"1' "# 0""6
&*1! &% '&%.*! 1")' "1('11"<*1)! -4)' 1*<*++%2 '%16 <"&&*16Y
%-(* /4+ "+*+ B%+ *R<**6'10(; K2"5".*6! %16 /'+ Z'%10*2
B%R*6 /")!G %)/* &"()*1' <%(#! B/'</')/* +2%*(')*+ /%6 &%6*)"
6'+/"1"42 "6 %16)/*&+*(5*+'1')/* B'(6*21*++! R"6 'RRR'' '
16 "42 -(*++*6 %5"'42!)/*K*2#*<) K%))*21 "# &**.1*++ %16
K%)'*1<*! '+ +%'6 1")' "1(')" /%5* -**1' :! 02'*5*6!G -4)')" /%5*
9'("".*6 4K"1')/* /%2'+**+ B')/ %10*2! -*<%4+* "#)/* /%261*++
"#)/*'2 /*%2)+!G %2.' ''' :')' %4(%(+" '1')/'+ K%++%0* +**&+
)" '&K(!)/%)' +"&* %10*2 '+ B%22%1)%-(* B')/ 2*0%26)" K2'5%)*
'1$42'*+ %16 %##2"1)+' K2"5'6*6 %(B% +)/%) 64* <%2* -*')%.*1')"
2*+)2%)'1')+ *R<*++! %16)" <"1V4*2 %16 <" &K"+*')' 1')&*')' '+
)/*2*#"2* 5*2 '-+*25%-(* /'B')/'+ <%4)'1' 241+! Q' *' %'055!
%16 +'1 1")! `<G *%1B/'(*)/* &%11*2 "#)/'+ *R/"2%)'"1'
K(%'1(' %204*+!)/%)' /"B*5*2 (%B#4(%10*2 &% '-*' 4K"1' +"&* "<Y
<%+'"1+! %16 '1' +"&* 6*02**+ ' *)')/*$4+)*+)' %10*2 <%11")' -* *RY
<4+*6! '5/*1')' <"1)'14*+ ("10 0' 03*- +:
OO ' ('0* 3 '+ $0)*' ,*60$-*0' /*&&%' 6% 3' U /'+ K2*<*K)'
B%+ "-+*25*6 - ')('* +</"(%2+ "# $;)/%0"2%+! B/"! B/*1')/* '/%6
-**1' %102 '%16 2*K2"%<'*6 "1* %1")/*2! -*#"2*)/* +41 B*1)'
6"B1! +/"".' /%16+! %16 *&-2%<*6 "1* %1")/*2 /'+ &"+)'/*
/2'+)'%1' 6"! %+)")/* +K'2')' "#)/* K2*<*K)! -*#"2* -* "##*2+ 4K
)" "6 /'+ 6*5")'"1+!)/%);+" /* &% Q (#)' 4KG)" "6' Q' /"('
/%16+ B')/"4) B2%)/!G A '&' "' +' %+' 3& 4/+
' 0 & 3 %')&' '-(' *' 3', (+F ' "')*&K)' $ "4')" %1 '+'1#4(
%<)'"1' - '6"'10 '1'+</'*#)")/* K*2+"1' "4' %2* %102 'B')/' %+
((+)' B%+ % &%R'&' B')/')/* 3*B+! *)' % &%1' Z-* %(B% +"1
'+ 04%26 %0%'1+)' %10*2' #"2)/* &%('< 4+ &%1' '+ +4-$*<)')")/*
6"&'1'"1' "#)/* '1#*21%(#'*16+' % ' 3& 4/+
9J' '3& ' 3 ' *(' (' 0* * % 1' +*5*2%(1%)'"1+! +" 6*Y
#*<)'5* B*2*)/*'2 1")'"1+ "# &"2%(') ! +)*%('10 B%+ %<<"41)*6 7



'5*+!+4-&')" "42+*(5*+41)"" "P2
P " "B1'/4+-%16+!%+41)"")/*" "26
9?" "2")/*'/4+-%16''+)/*'/*%6' "#)/*'
B'#*!*5*1'%+/2'+)'+)/*'/*%6' "#')/*'
</42</' %16'/*'+)/*'+%5'"42' "#)/*'-"6
9C' /*2*#"2*'%+)/*'</42</'+4-$*<)'
41)"'/2'+)!+"'(')/*'B'5*+4')"')/*'2'"B1'
/4+-%16+'1'*5*2')/'10
; 9:' 4+-%16+!("5*' "42' B'5*+!*5*1!%+
/2'+)'%(+"'("5*6')/*'</42</!'%16'0%5*'/'&Y
+*(#'#"2')'$
9E' /%)'/*'&'0/)'+%1<)'#'%16'<(*%1+*')'
B')/')/*'B%+/'10'"#'B%)*2'-')/*'B"26!
'/%)'/*'&'0/)'K2*+*1)'')"'/'&+*(#
%'0("2'"4+'</42</!'1")'/%5'10'+K")!"2'
B2'1.(*!"2'%1 ;+4</')/'10+'-4)')/%)'')'
+/"4(6'-*'/"('%16'B')/"4)'-(*&'+/
9J' "'"40/)'&*1')"'("5*')/*'2' '5*+'%+
)/*'2'"B1'-"6'*+' *')/%)'("5*)/'/'+'B'#*'
("5*)/'/'&+*(#' H
'"2'1"'&%1'*5*2'*)'/%)*6'/'+'"B1'
#(*+/'$-4)'1"42'+/*)/'%16'</*2'+/*)/'')!'
*5*1'%+)/*'"26')/*'</42</
?'"2'B*'%2*&**&-*2+'"#/'+'-"6!"#'
P'+'#(*+/!'%16'"#'/'+'-"1*+

?A' "2')/'+'<%4+*'+/%((' %'&%1'(*%5*'/'+'
#%)/*2'%16'&")/*2!'%16'+/%((' -*'$"'1*6'41)"' P P'
/'+'B'#*!'%16')/*')B"'+/%((' -*'"1*'#(*+/
?9' /'+'+'%'02*%)'&+)*2'-4)'A'+K*%.'
<"!1<*21'10' /2'+)'%16')/*'</42</
'*5*2)/*(*++'(*)'*5*2'"1*'"#' "4''1'
K%2)'<4(%2'+"'("5*'/'+'B'#*'*5*1'%+'/'&+*(#$
%16')/*'B'#*' ')/%)'+/*'2*5*2*1<*'3%
/4+-%16

,-.9' 32

A 3',$/'*'.3&(,% 0'*6%,'3&%'-%0 '>'*' %E
'0'*6%,'3&%' %+A' $%'(&'&'6%%
AJ 0*'*0(/') &0'(3'0,'4(**,'4$'(*'-&%&$(
0&+A?3'.*-('%*$%'*''3%&&0'AJ
0,'3*6'&'*$)3'*'4'$,+9A' /.3&.$'&'.*'
0,,+
-2CKM;'%'"!''!#'#'
C!(*!'''!$

'"1"42')/'#%)/*2'%16'&")/*2'B/'</'
'+)/*'#'2+)'<"&&%16&*1)'B')/'K2"&'+*'$
?'/%)'')'&%'-*'B*((' B')/')/**'%16'
)/"4'&%*+)'('5*'("10'"1')/*'*%2)/
C' 16!'*'#%)/*2+!'K2"5".*'1")')'42'</'(Y
62*1')"'B2%)/''-4)'-2'10')/*&'4K''1')/*'
142)42*'%16'%6&"1')'"1'"#')/*' "26

-4)'6'6'2%)/*2*1#"2<*')/*"-('0%)'"1')/*'B*2*'416*2')"""-+*25*'
)/*&' 16'#)/*+*'64)'*+'B*2*'1<4&-*1)'4K"1' /2'+)'%1+')"Y
B%26+2*(%)'"1+"#%((.'16+!*5*1')/"40/')('(*'-"2*')/*</%2%<)*2
"#41-*('*5*2+!&4</'&"2*'B*2*')/*'*10%0*6')"'K2%<)'+*')/*+*
64)'*+)"B%26+4+</'%+B*2*'2*(%)*6')"')/*&!1")"1(''-')/*)'*+
U'#1%)&%("2"#<'5'('1+)')4)'"1!-4)'-')/*&"2*'*16*%2'10'-"16+
"#02%<*'%+'*,,%&,)+ A
99' O''$0*'3'*%,+'/%)'+!'1'"-*6'*1<*')"')/*'<"&Y
&%16"#)/*"26!B/"!/%+'0'5*1')/*/4+-%16'K"B*2'"5*2')/*
B'#*!%16'/%+2*V4'2*6'%16'B'((2*B%26'/*2'"-P'*1<*')"'/'&'
$%8&+/*'K"+)(*/*2*'1)'&%)*+!)/%)'))/*/2'+)'%1'(%B!'1'
)/'+%+'1'")/*2)/'10+!6")/'1'1"B%'%114(!-4)'2%)/*2'<"1#'2&!
"6+#'2+)'1+)')4)'"1'%+!0&*0,+
9C' O'&0''%/'3&0)=' %&*(!'1'*5*2')/'10')/%)'+'K2"K*2'
%16'%02**%-(*')"')/*(%B+"#"6'%+'((+'!
'3'3''&)3'0./'0,'.(0'&'`<a/%)'*'&'0/)'
K42'#''')#2"&%((+'1'%16')"')/%)'*16'%KK"'1)'6'-%K)'+&!)/*2*'1'
"-('0'10'4+)"'#"2P+%.*)/*6*5'(!)/*B"2(6!%16')/*#(*+/!%16'
<"5*1%1)'10')"'0'5*'4+02%<*')"'6"'+"'%16')"')/%)'%66'10'+'
UB"26!)/*B/"(*6"<)2'1*!<"&&%16+!%16'K2"&'+*+'"#)/*"+K*(!
%+%K"B*2#4(&*%1+)"'"-('0*'%16'*1%-(*'4+)"'6K+"'%+'!
*0,+
EJ' W*%'''%'4%'3&'4*,/'X+'1+"&4</')/%)'
%+6%&'+%'6')"'5*!Z-"1*'"#&'-"1*+!%16'#(*+/'"#&'#(*+/!Z
+"('.*B'+*'1'%&+)'<%(+*1+*')'&%'-*+%'6'"#4+/2'+)'%1+!'1'
2*+K*<)'"#/2'+)!')/%)B*'%2*'Q'"#'+'#(*+/!%16'"#'+'-"1*+G
%+'((+
/'3&'&'')%'/%/G`<$+41'"1'%16'<"1$40%(
<"1$41<)'"1'N+)/*1'%02*%)'1V2+)*2 1")'1'2*+K*<)'"#')+*(#"1(!
-4)'1'2*+K*<)'"#)/%)'%(+"'B/'</'+)/*2*-'2*K'2*+*1)*6!*5*1')/*
-(*++*641'T&B/'</'+'-*)B'R')/*/4+-%16'/2'+)!%16')/*</42</
'+K"4+*'-+'!((+
!'' '%3(V 1'3''")/*2'%<<"41)'%(+"!Z'(*)'*5*2''"1*
"#"4'`<G%+'3&4/+

/%K''/*K"+)(*K2"<**6+'1'+/"B'10')/*/2'+)'%1'
"-('0%)'"1')"')/*")/*2'2*(%)'5*64)'K+'"#K%2*1)+%16'</'(62*1!
&%+)*2+%16'+(%5*+')/*1'*1<"42%0*+/*&')"'0*1*2%('1+)%1<'
%16'2*+"(4)'"1'%0%'1+)'%((*&K%)'"1+%16'K*2+*<4)"'1+!#"2')/*
+%.*"#/2'+)'%1')'%16!-'&*)%K/"2+)%.*1'#2"&')/*%2)+"#
2*<'%1'%16"&%1'+"(6'*2!6'2*<)+)/*;K/*+'%1+/"B')K%2&

)('*&+*(5*+%0%'1+)')/*%+-%4()+"#)/*'2+K'2')4%('1*&'*+!6*+'2*+
)/*'2K2%*2+#"2/'&!%+)/*'2*1)'(*K"+)(*!%16'<"1<(46*+B')/
/'+-(*++'10'/(+
2'A'L &0'3'%,'\F=1'<"&K('%1<*B')(")/*<"&&%16Y
&*1)'"#)/*"26'2'%+#%2%+)/*'2'<"&&%16&*1)+%2*<"1+'+)*1)
B')/')/*(%B'"#"6'%+'3&4/+
+L 63&.3'&'3'&%'.*&(,%0 0('6&3'-%*&'/%)'+!
%+K*<'%(K2"&'+*'#"2')/%)!B/'</'+%11*R*6')"%)/*+*<"16<"&Y
&%16&*1)!'+2%)/*2'%0*1*2%('%++*2)"'1')/%1'%0+K*<'%(K2"&'+*'
%'3&4/+
H+'3'&'/'4'6((6&3'3'`'')'%4(+**&+)"'/%5*
)/"40/)!)/%)/*)/*K2"&'+*'"#("10'(#*)"'"-*6'*1)'</'(62*1!B%+
1")'<%1<*((*6'-')/*'<(*%2*2'K2"&'+*+"#*)*21%((#*'416*2')/*
/2'+)'%1'2*5*(%)'"1'*'+%+!1")!Q')/%)/'6%+&%'-*("10'
4K"1')/*(%16'B/'</')/*"26')/'"6'0'5*)/')/**G)/%)'-*Y
("10*6'"1('')"')/*</'(62*1'"#+2%*('-4)/*+%+!Q')/%)/"4'
&%*+)('5*'("10'"1')/*'*%2)/G'1)'&%)'10')/%)'*5*2'K*2+"1'B/"'
+/"4(6'#4(#'(')/*K2*<*K)!/%6'%)')(*)"')/*2*B%26'%+'%&0+'
**)/*1")*+'"1'R"6'RR'A9'*4)'5'+
C'O'-%*'*8'0*'/*$%'.3&(,%0'*'6%3''+*5*2*)2*%)&*1)'
%16'2'0'6'1$41<)'"1+!+*'"('''9A'-4)'2%)/*2'Q-2'10')/*&'4K'
1')/*142)42*'%16'%6&"1')'"1'"#)/*"26!Z'1+)24<)'10')/*&'1'
)/*K2'1<'K(*+'"#K'*)"B%';6+"6!%16'#%')/''1'"42'"26'3*+4+
/2'+)'3&'+%')/'<4&*1'4+!'+)/*B%')"'&%.*)/*&'-*Y
6'*1)'%16'#'"4'#421'+/)/*&'B$)/'+K'2')4%(+!)*&K"2%()/'10+
B'((#"((B'%.*)/*&'2*%6')/*<2'K)42*+!+%')/'/*"K/(%<)!
B/'</'+)/*64)'"#%((/2'+)'%1+'#"2'+')'1")'%+/%&*')"'1+)24<)'
)/*&'1'/*%)/*1'%4)/"2+!%16'1")')"'1+)24<)')/*&'1'/*"2%6*+
"#"6[%+'3&4/+
OO'4%&0)'3'$-'&0'3'0$%$%'0,',*0&&*0'*'3'*%,+F
3'.%'*'0'5'10'1+)24<)'"1')'"</'(62*1'4+4%((-*("10+!'1'%
K*<4('%2'6*02**f)")('*'2K%2*1)+'B/"!/%5'10'-**1')/*&*%1+!"#
-2'10'10')/*&'1)"')/*B"2(6!%2*&"+)+)2"10('-"416')"'*16*%Y
5"42')/%)')('*'2-*'10'&%'K2"5*%-*1*#')!1")'%<%4+*"#(%&*1Y
)%)'"1')"')/*&'%16/%'10'-**1'*164*6'-'*%5*1'B')/')*16*2
%##*<)'"1+)"B%26+)/*&!B'-*6"4-('+'11*2+'%0%'1+)')/*&!'#
)/*'%2*04'()'"#)/%)B"2+)"#<24*()!1")*%</10')/*&)/'2
64)''B')/"4)B/'</'%(+"!%16')'6*+*25*+%05*2'+*2'"4+!<"1+'6*Y
2%)'"1!)/*'H%1!1"'&"2*/"K*#'2<"&#"2)'1')/*&'/*2*!)/%1'#"2
%<<*K)%1<*B')/'6'/*2*%#)*2'16')/*2*#"2*!-")/')/*(6'
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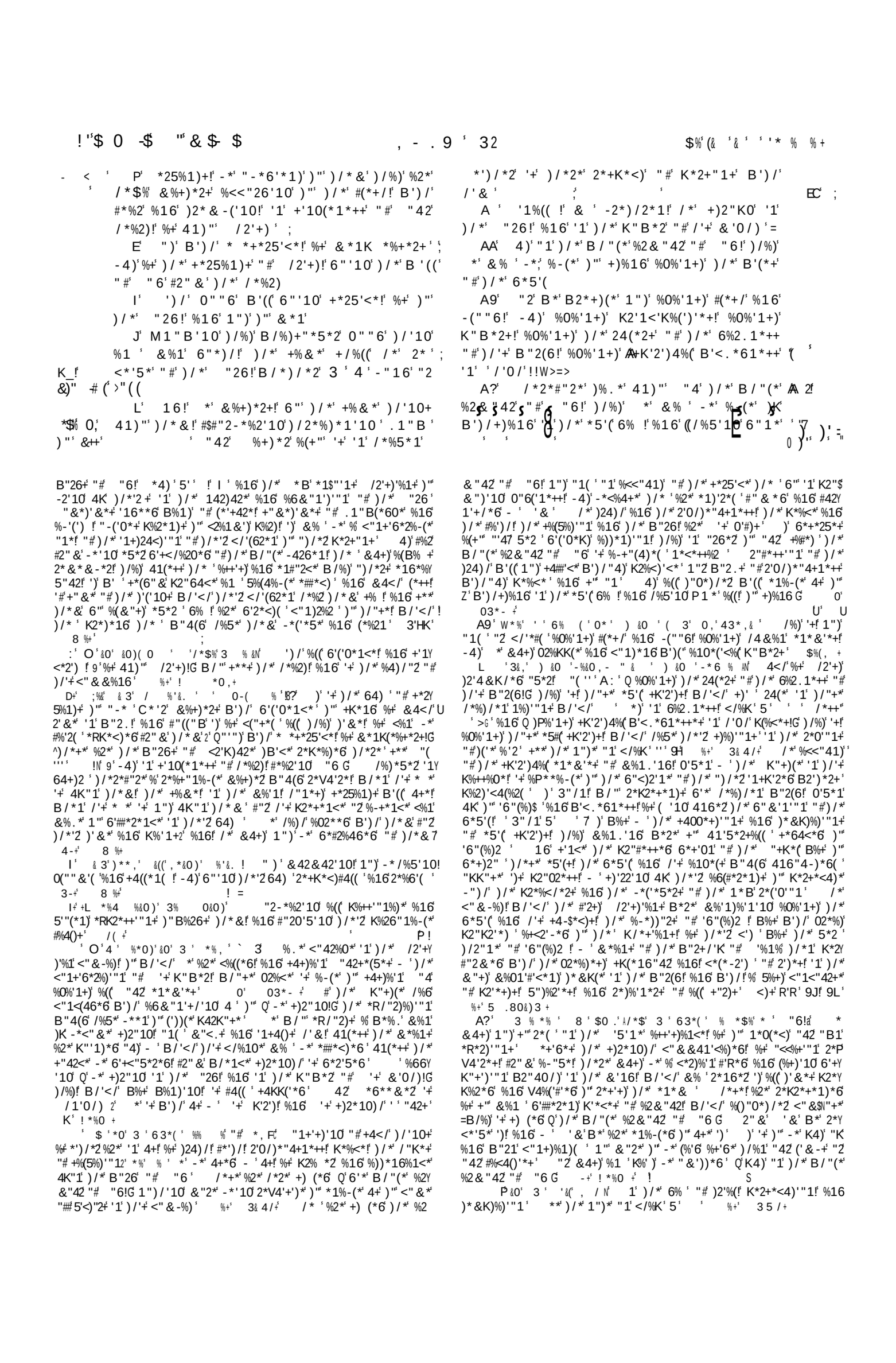


5 &

AC 16 &%1 " #') / *' -2*) / 2*1' '1') / *; "26!' B%R'10' <"1#'6*1)' - & ' -"16+!' %2*' & 4</' & "2*' -"(6')"' +K*%.') / *' B "26' B') / "4)' #*%2 ' ;

A:' "& *' '16**6' K2*%</' /2'+)' *5*1' "# *15 ' %16' +)2'#*'$' %16' +"& *' %(+"' "#' 0""6' B '((' ;' ;' ;

AE' / *' "1*' K2*%</' /2'+)' "#'<"1)*1)'"1!' 1")' +'1<*2P !'+4KK"+'10') "' %66' %#''(')'"1') "' & ' -"16+

' 4)') / *' ") / *2' "#'("5*!' .1"B'10') / %)' ' %&' +*)' #"2') / *' 6*#*1<*' "#') / *' 0"+K*(

AJ' /%)') / *1' [' 1")B') / +)%16'10!' *5*2 ' B% !' B / *) / *2''1'K2*)*1<*!"'2''1')24) / !' /2'+)' %+' K2*%</*6 ' %16')') / *2*'1' 6"' 2*$"'<*!' *%!' %16' B'((' 2*$"'<*

' "2' ' .1"B') / %)') / '+' + / %((') 421') "' & ' +%(5%)'"1') / 2"40 /' "42'K2P*2!'%16') / *' +4KY K(' "#') / *' K'2')' "#'3*+4+' /2'+)!

9 ' <<"26'10') "' & ' *%21*+)' *RK*<)%)'"1' %16' &.' / "K*!') / %)' '1' 1")' / '10' ' + / %((' - *' %+ / %&*6!' -4)' &3 (' B') / ' %((' -"(61*++!' %+' %(Y B% +!'+"' 1"B' %(+"' /2'+)' + / %((' - *' & %01'#'*6' '1' & ' -"6 !' B / *) / *2' & ' 3 ' - ' ('#*!' "2' - ' 6*%) /

9A' "2') "' & *') "' ('5*' #$ /2'+)!' %16') "' 6'*' #$ 0%'1

99' 4)' '#' ' ('5*' '1') / *' #(*+/!') / '+' & ') / *

#24')',"#'& ,' (%-"42' *)' B / %)' ' + / %((' </""+*' A' B")' 1") ' ;

9?' "2' ' %&' '1' %' +)2%')' -*) B 'R)') B "!' / %5Y '10' %' 6*+'2*')"' 6*K%2)!' %16')"' -*' B') / /2'+) ' B / '</' '+' #%2' -*))*2'

9C' *5*2) / *(*++')"' %-'6*' '1') / *' #(*+/'#$ &"2*' 1**6#4(' #"2' "4

9:' 16' / %5'10') / '+' <"1#'6*1<*!' . 1"B) / %)' A' + / %((' %-'6*' %16' <"1)'14*' B') / ' "4' %((' #"2' "42' #42) / *2%1<*' %16'$" ' "#'#%') / ' ;

' ; / %)' "42' 2*$"'<'10' &% ' -*' &"2*' %-416%1)' '1' 3*+4+' /2'+)' #"2' & *' - ' & ' <"&'10') "' "4' %0%'1

' 1(' (*)' "42' <"15*2+%)'"1' -*' %+' ')' -*<"&*) / ') / *' 0"+K*(' "#' /2'+) ') / %)' B / *Y) / *2' ' <" & *' %16' +**' "4!' "2' *(+*' - *' %-+*1)!

' &% ' / *%2' "#' "42' %###%'2+!') / %)' *' +)%16' #%+)' '1' "1*' +K'2')' B') / ' "1*' &'16' +)2'5'10')"0*) / *2' #"2') / *' #%') / ' "#') / *' 0"+K*(

9J' 16' '1' 1") / '10') *22'#'*6 - ' "42' %6P 5*2+%2'*+' B / '</' '+')"') / *&' %1' *5'6*1'')". *1' "#'K*26')'"1!' -4)')"' "4' "#'+%(5%)'"1P' %16') / %)' "#' "6 ' ;

' "2' 41)"' "4')' '+' 0'5*1;' '1') / *' - * / %(#' "#' /2'+)!' 1")' "1(')"' - *('*5*' "1' / '&!' -%)' %(+"')"' +4##*2' #"2' / '+' +%. *'

? ' %5'10') / *' +%&*' <"1#('<)' B / '</' *' +%B' '1' &*!' 0,' 1"B'!/*%2' *' 4 ' & ' &*

) / *' <') ' +"') / %)' K*"K(*!' '1V4'2'10' '1)"') / *' <%4+*' "#' / '+' +4##*2'10+!' #"416') / %)' ')' B%+' 1")' %1 ' &'+6*&*%1"42!' -4)' / '+' K2*%</'10' %16' K2%<)'+'10' "#') / *' 6")2'1*' %16' 64)'*+' "#' /2'+)'%1') ' $%8& +' H

AC' O' 6 M&0)' . *0 &, 0' 3/' /' 4*0, ' ') / *' *R%&K(*' "#' & ' K%)'*1<*' %16' <"42%0*' '1') / *&' 2' ((+

>+' * '&0, ,' % 3' 3%& ' ' 0' * ' 0' / ' 0, '"%& & ' 15 Y '10') / *' +4<<*+' "#') / *' K"+)(* +' &'1'+)2 f %16' *16*%5"42'10')"' 62%B' K*"K(*' "## #2" &' %KK2"5'10' / '&!') "' %KK(%46') / *&' / "K'10')"' P;'*5*' %16' %##('<)' / '&') / *2*- ' ") / *2+' K2*%</*6') / *' "+K*(' "# / 1+)' 9' "#0""6 B'((!G B') / ' % K42') "#'1)*1)""1' %16' +'1<*2') "#' %##*<)"'1f -") / ') "B%26+' /2'+)' %16') "B%26+') / *' K")(*' $%8& +

' O' 3 ' ' ' * %' 3 ', / 3&. '* ' 3 ')* - (+ ' %'%KK"'1)*6' / ' /2'+)' '1' % +K*<'%(&%11*2#"2') / %)' K42K"+*' 2' ((' %8 ' 3$% +' ! / %)') / *' K2"5'1<*' "# 6*#*16'10') / *' +)'%1' 2*('0""1' /%+' -**1' *1)24+)*6') "' &*' .3($ 0 %+

' !AJ' O U63 3 B' &0' -% 0. ' *%' &0' %$ 3 ' / *) / *2' B') / ' "1(' %1' "4) B%26' +/ "B' %16' %KK*%2%1<*' "#K'*) ' %16' D*%(f "2' B') / '+'1<*2') ' 2' *, ,%&,) ' %83$% +' 9' 24) / G' %16' 9' K2*)*1<*G' / *2*' 2*Y (%)*f 1")') "') / *' &%))*2+' K2*%</*6f -4)') "') / *' 5'*B+' "#') / *' K2*%<Y *2+' 2" &' B / %)*5*2' &")'5*' /2'+)' B%+' K2*%</*6f K2"5'6*6' ')')*%+') / *')24) / ' <"1<*21'10' '&!' ')' B%+' &))*2' "#$" ')"') / *' K"Y +)(*' %+' 5 .80&) 3&+' 8

+' W*%' '80*6' 3 ' 3&' 3 ((' $%0' *' / ' (' &*0' `< $' / *' &*%1'10' &% ' -*' %1' *RK2*++'"1' "#') / *' K")(* +' <"1#'6*1)' K*2Y +4%+'"1f) / %)' %(( ) / *' 6*+'01+' "#' / '+' %65*2+%2'*+' %0%'1+)' / '&' +/"4(6' -*' +"' "5*224(*6' %16' "26*2*6' - ' "6f) / %)f) / 2"40 / ') / *' '1#(4*1<*' %16' +4KK('*+' "#') / *' "(' K'2')f %((+/"4(6' B"2.')"0*) / *2' #"2' 0""6f %16' / '+' *)" 1%(' +%(5%)'"1' -*' %65%1<*6') / *2*- f) / 2"40 / ') / *' <"1<422*1<*' %16' %++')+)%1<*' "#') / *'2' K2% *2+' $%8& +

U9 ' L ' 3%& ' 3 "'4 ')0&, '&0' /4*, / =' "2' '#' ('5*' '1') / *' -"6 f) / *' K"B*2' "#' /2'+)' B'((' -*' &%01'#'*6' '1' 6*('5*2'10' &*' "4)' "#+"' 02*%)' %' 6%10*2' -4)' '#' ' -*' K4)') "' 6*%) / *' #"2' '+' +%. *f) / %)' K"B*2' B'((' -*' &%01'#'*6f B / '</' *1%-(*+' -*')"' 6'*' #"2') / *' U#%') / '+" </**2#4((' %+' %&' 2*%6 ') "' 6"' %+' 3& 4 / +

9A' W*%' *' ' *' (&' ' & ' 3%& ' 0,' *' ,& ' & ') &0+ ' / *' "1(' 6'##*2*1<*' -*)B**1' ('#*' %16' 6*%) / ')"' &*' '+!') / %)' - ') / *' "1*' ' + / %((<"1)'14*') / *' ("10*2' 1' /2'+) 7' +*25'<*f %16' - ') / *' ") / *2' + / %(( ) / *' +"" 1*2 2*B%26*6' / (+

99' O' 3& ' & ' 3 ' %$& ' * ' /' " 3*$%&(' /%)' '+f) / *' +*25'<*' "# /2'+)' '1' <"15*2)'10' "2' +)2*10) / *1'10' "4'*2+' '+' B*((' B"2) / ' & ' (%Y -"42' +"') / %)' B*2*' ')' (*#)')"' & ' </"'<*' ' + / "4(6' -*' '1' %+)2%')f B / '</' "#') / *') B"' <"16')'"1+')"' </""+*' % +' (('%16' 3& 4 / +

9?' O' '5 .3' & ' %' 4 (% %&*(f #"2' & +*(#f) / %1' <"1Y)'14'10' '1') / '+' ('#*f '#' /%6' 2*+K*<)' "1(')"' & ' "B1' *%+*' +' ((+' / *' "2'0'1%(' K/2%+*f B / '</' &% ' -*' (')*2%(('2*16*2*6' 8' - ' &4<' #%2' -*))*2!' '+') / *' /'0/*+)' +4K*2(%)'5*' B / '</' ')' '+' K"++'-(*')"' #"2&,'1' %1 ' (%104%0*' %+' 5 .80&)3&+

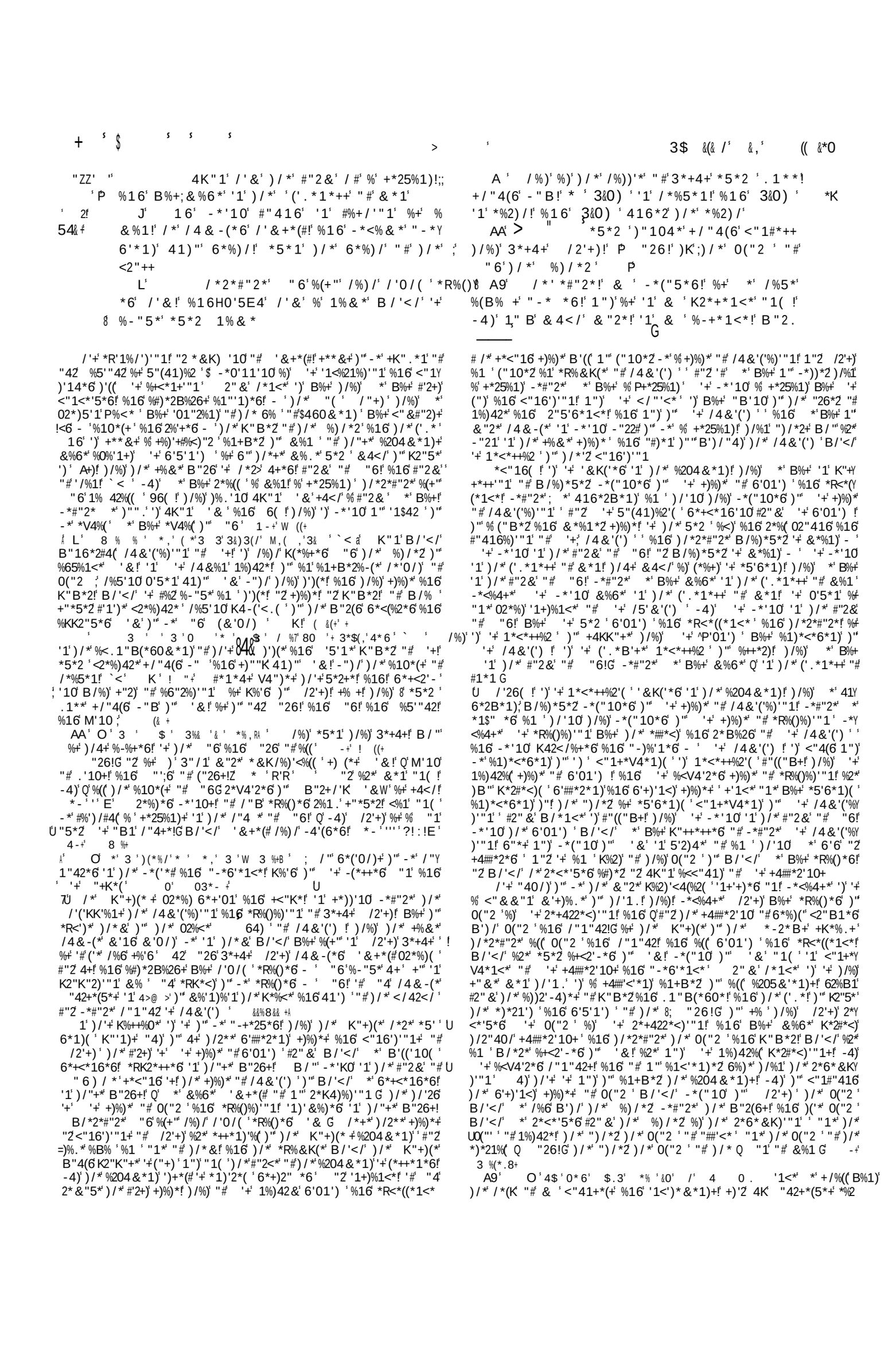
9:' O' '80*6' 3 ' ' 3 ((' 4&, ' 0,' .*0 &0$ ' 6& 3' / * ' ' ' #4(('K*2+4%6*6') / %)' "6' B'((' +"' "26*2')f) / %)' ' + / %((' ('5*' %16' +**' "4' %0%'1 ' / (+ Z

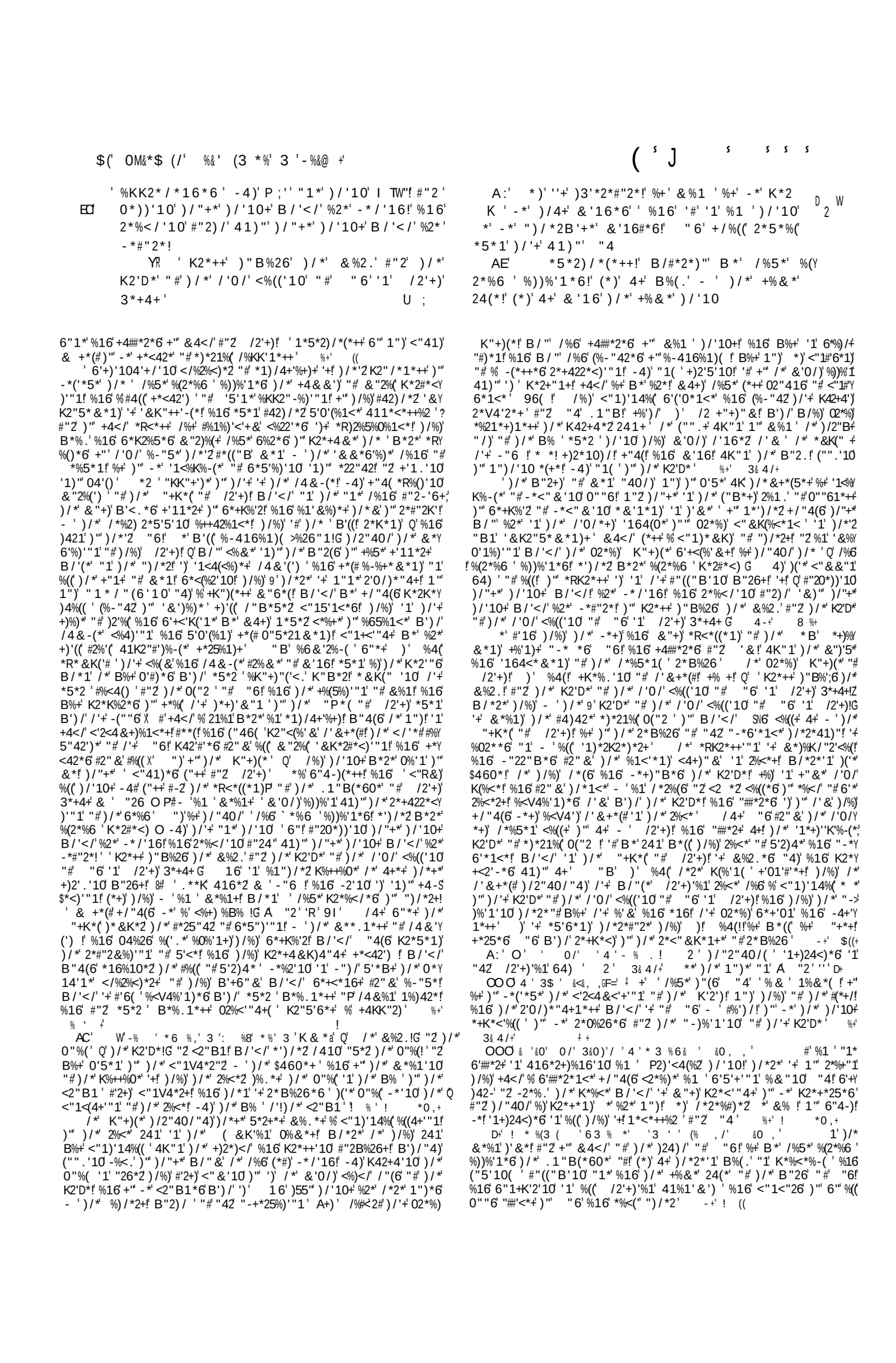
9J' ,0, '&0' 0* 3&0)' %%& & ,'4 / ' / *$%' ,' % %& ' $&)' *5'6*1)(' %KK*%2+' #2" &') / '+f %16' #2" &' +*5*2%(") / *2' K%++%0*+' '1') / '+' K')(*f) / %)') / *' / '('KK'%1+' B*2*' 1"B' '1' %+4##*2'10' +)%)*f B / '</' '+' % <'2Y <4&+)%1<*') "' -*' -"21*' '1' &'16' %+' B*' 0"' '11f +'1<*' ')' '((4+)2%)*+' +*5*2%(&%+)*2(' +)2". *+' '1') / *' K")(* +' %662*++') "') / *&' %+' *, ,%&,) +

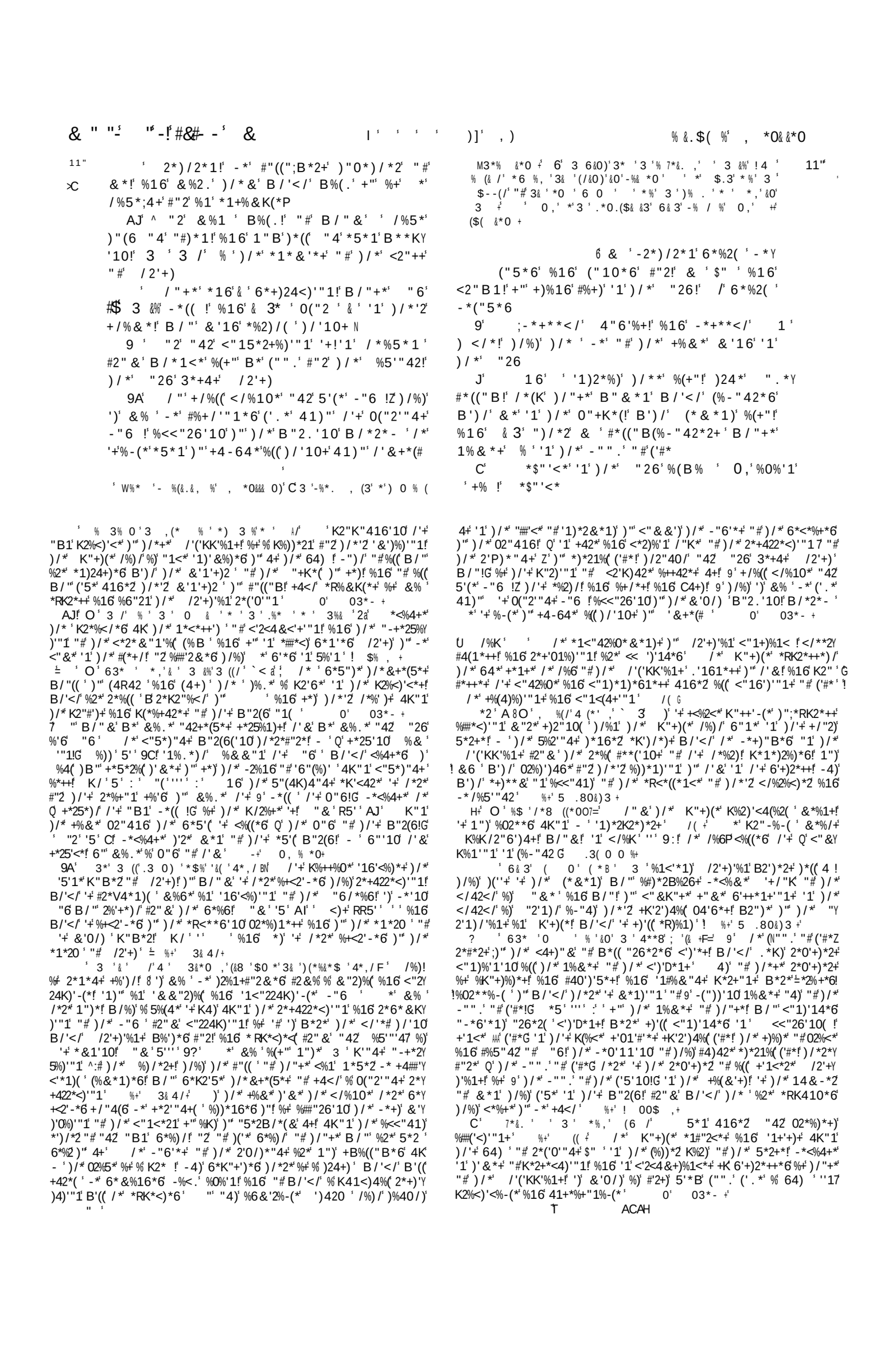
O O 63&.3' & ' *' 3 ' 0' '&, 0' *8 0'; '- %, & &*0 ' / *' &*%1Y '10' '+f *') / *2') / %)') / *') / 2*%)+' %16' K*2+*<4)' "1+' "#') / *' %65*2+%2'*+' +/*B') / *&') "' -*' %1' "-+)'1%)*' %16' '1<42%-(*' K*"K(*f -*1)' "1') / *'2 "B1' 6*+)24<)' "1' "2') / *' B"26' 9' B / '<' G' &% ' 2*#*2') "') / *' /'('KY K'%1+' Q +)%16'10' #%+) G %16') / *' Q') ". *1' "#' K*26')' "1') "') / *&G &% '+'01'# f) / %)') / *'2%65*2+%2'*+') "" .) / '+' +)*6#%+)1*++' "#') / *'2+') "' -*' %) ". *1' "#') / *'2' K*26')' "1'$ -4)f +% +') / *' K")(*f (" . ' "4' 4K"1' ')' %+' %) ". *1' "#' "42' +%(5%)' "1' / (+

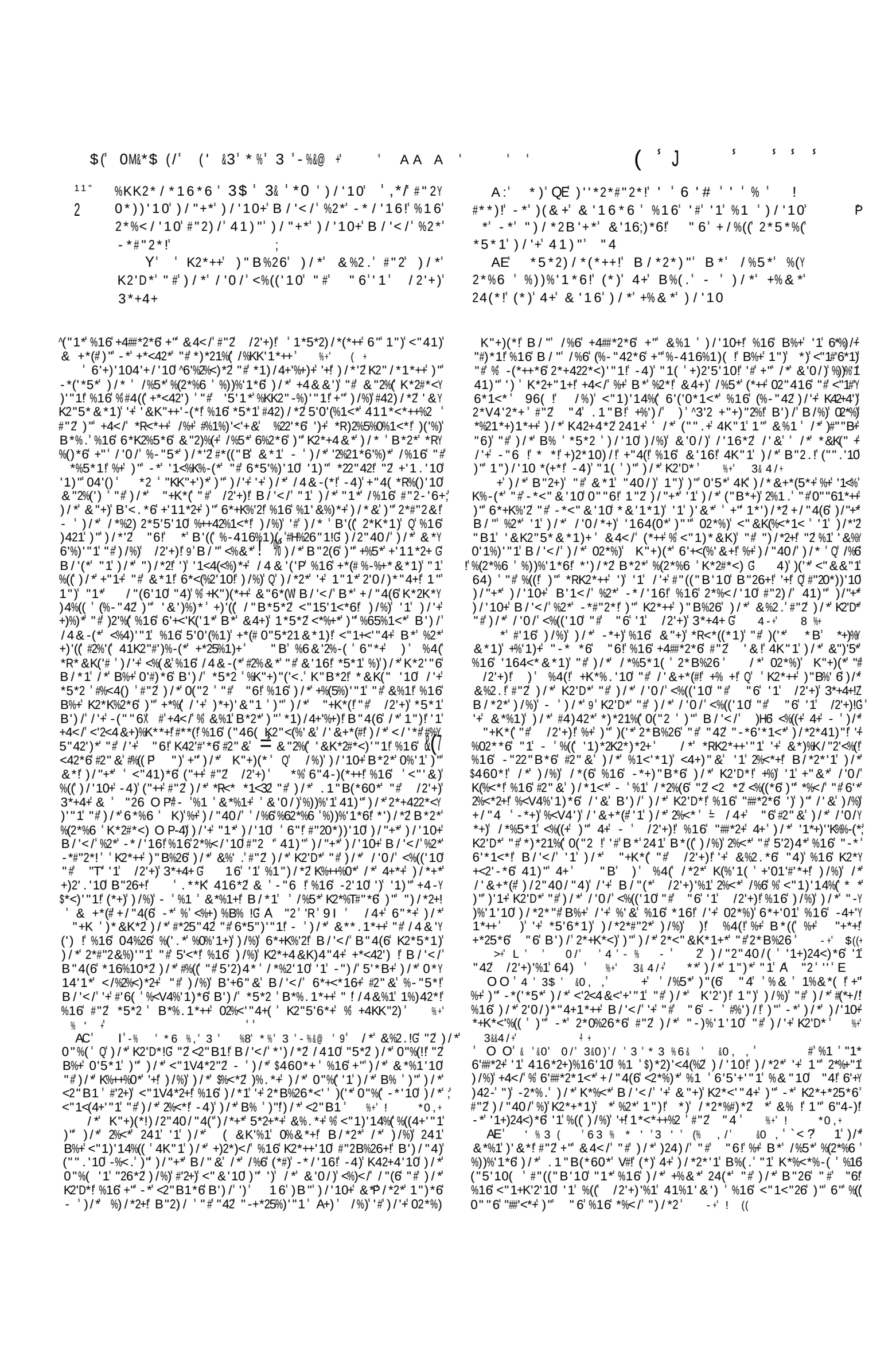
' W*%' $0 *' / *$' & ') &' 0' ` < a' %&*(f -' "6f %+' % +K*<'%(' #%5"42' 2' 3& 4 / +') ' %4(' B'+ / *6') / *' / '('KK'%1+') "' <"1+'6*2) / *$2+4##*2'10+' #"2' /2'+)' %+' %1' / "1"42f %16') "' 2*$"'<*' '1') / *&' / 4+' ') '+ +%'6' "#') / *' K")(*+!' <)+' 5 ' CA!' Q' / *' 6*K%2)*6' #2&1') / *' K2*+*1<*' "#') / *' <"41<'(f 2*$"'<'10') / %)') / *' B*2*' <"41)*6' B"2) / ')" +4##*2 + / %&*' #"2' '+' 1%&*' G' 2' 5 .80&)3&+

' *+' ! '&0) ' 3 ' '.*0 (&. ' 63&.3' / ' 6' &0' ' X .+' ') / ') / '+' K%+%0*f %16') / *') B "' #'2+)' 5*2+*+' V#') / *' #"((" B'10' </%K)*2f B&'K%2*









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^3C!

& *! %16 &%2.) / * & B / '</ B%(. +"" %+ *
/%5*4+#"2%1*1+%&K'*
AJ ^ "2 &%1 B%(.! "# B / "& / %5*
)"(6 "4"#)*1!%16'1"B)*((" "4**5*1 **KY
'10!' 3 3 / %) / *' *1*&'*+" "#) / *' <2"++
* / 2'+)
/ "+*' *16'& 6*+)24<)'"1! B / "+* "6'
& 3 &% -*((! %16' 63* 0("2 & '1') / *'2'
+/%&*! B / "' &'16' *%2) / ( ) / '10+ N
9 "2" 42' <"15*2+%)'"1' +!'1' / *%5*1
#2" & B / *1<*' %(+"" B*("". #"2') / *' %5'"42!'
) / *' "26'3*+4+ /2'+) Z
9A / "+/%((<//%10** "42'5'(*-"6 !;) / %)'
') & % -*' #%+/'"1*6'(. *' 41)"' /'+ 0("2'"4+'
-"6 ! %<<"26'10') "') / *' B "2. '10' B / *2*-$2' / *'
'+%-(*'*5*1') "'+4-'64*'%((') / '10+'41) "' / '&+*(#
W%* - %&.$(% , *0&*0'C3 -%*. , &8*') 0 % (

M3*% &*0 A ' 8 6&0)'3* '3'% 7*&. ,' 3 &%'!4 11%'
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6 & -2*)/2*1'6*%2('-*Y
("5*6' %16' ("10*6' #"2!' & '$" %16'
< "B1!'+"' +)%16' #%+)'1') / *' "26!' & '6*%2('
-*("5*6
9' ;-*+**</' 4"6'%+!' %16' -*+**</' 1'
) </*!') / %)') / * ' -*' "#) / *' +%& *' & '16' '1'
) / *' "26
?' 16' '1)2*%)') / **' %(+"!')24*' ".*Y
#*((" B!' / *(K') / "+*' B "& *1' B / '</' (%-"42*6'
B') /' & *' '1') / *' 0"+K*(!' B') /' (* & *1)' %(+"!'
%16' B') /' ") / *2' & '#*((" B(%-"12*2+' B / "+*'
1%& *+' %2*' '1') / *' -"". '"#('#*
C' *$"'<*' '1') / *' "26'%(B% ' '%16'%0%'1'
'+% ' *$"'<*

% 3% 0'3 ,(* % ' *) 3 %' * %0 V ' 'K2"K"416'10' /'+
"B1' K2%<)'<*') "') /*+*' /'''KK'%1+!' %+'% K%))*21' #"2') / *'2' &')%)'"1!
) / *' K"+)(*' /%) /'%)' "1<*' '1)'&%)*6') "' 4+') / *' 64) ! -") /' "#%((B / "'
%2*' *1)24+)*6' B') /') / *' &'1'+)2' "#) / *' "+K*(')"' +*)! %16' "#%((
B / "('5*416*2') / *'2 &'1'+)2')"' #"(("B! +4</' *R%&K(*+' %+' &% '
RK2+' %16'%6"21') / *' /2'+)'%1' 2*('0'"1' 0' 03*- +
AJ O' 3 /' % ' 3' 0 & ' * ' 3'.%* ' * ' 3%& ' *<%4+*'
) / * 'K2*%</*6' 4K') / *' 1*<*++') '"#<'2<4&<'+'"1! %16') / *' "-+*25%Y
)'"1' "#) / *' <*2*&"1'%((%B' %16' +"' '1' *##*<)' 6*1'*6' /2'+)')"' -*'
<"&*' 1') / *' #(*+/! "2 %##'2&*6') /%)' *' 6'*6' 1'5%'1' ' & %8& +
O' % 3* ' *,'& ' 3 &%'4 ((/' `< a'; / * ' 6*5")*') / *&+*(5*+
B / "((') "(4R42 '%16' (4+)') / * ')%.*' % K2'6*' '1') / *' K2%<)'<*+!
B / '</' %2*' 2*%((' B2*K2"%</')"') / *&' ' %16' +*)') / *'2 /*%2)+' 4K"1'
) / *' K2"#')+' %16' K(*%+42*+' "#) / '+' B"2(6' "1(' 0' 03*- +
"' B / "&' B*' &%.*' "42+*(5*+' +*25%1)+!' / '&' B*' &%.*' "42' "26'
%16' "6' / *' <"5*)"4+' B"2(6('10') / *2*#"2*!' - '9'+*25'10' %&Y
&"1!G %))' 5'' 9C!' &%.*) /' %&&"1' / '+' "6' B / '</' <%4+*6')'
%4(')B"' +*5*2%(')'&*+')"' +*)') / *' -2%16'"#'6"(%)2'4K"1'<"5*)"4+Y
1*++!' K/' ' :2' "('''' >+' 16') / *' 5"(4K)4"4+' *K'<42*' '+' /*2*
#"2') / '+' 2*%+"1' +%'6')"' &%.*' / '+' 9'-*((' / '+' 0"6!G -*<%4+*' -*'
Q' +*25*) /' / '+' "B1' -*((!G %+') / *' K/2%+*' '+!' "&' R5'' AJ' K"1'
) / *' +%&*' 02"416') / *' 6*5'('+' <%((*6' 9') / *' 0"6' "#) / '+' B"2(6!G
9 "2' 5' C!' -*<%4+*')(&' &*1' "#) / '+' *5'(B"2(6!' - ' 6"'10' / '&'
M25'<*!' 6"' &%.*'%' 0"6' "#/'& -+' 0, % *0+
9A' 3*' 3 ((' .3 0) ' *$%' '&('4 *, / / '+' K%+*%0*' '16'<%)*+') / *'
'5'1*' K"B*2' "# /2'+)!') "' B / "& '+' / *2*'%+<2'-*6') /%)' 2*+422*<)'"1!'
B / '</' +' #2*V4*1)(' &%6*' %1' '16'<%)'"1' "#) / *' "6 / *%6!') '-*'10'
"6 B / "' 2%+*) / '#' &') / *' 6*%6!' "&' '5' AI' <)+' RR5' ' ' %16'
B / '</' '+ %+<2'-*6') "') / *' *R<**6'10' 02*%)1*++' %16') "') / *' *1*20 "#
'+ &'0/) ' K"B*2!' K / ' ' ' %16' *)' '+ / *2*' %+<2'-*6') "') / *'
*1*20 "# /2'+)' = %+' 3& 4 / +
: 3 '&' / '3' 3&*0 ,'(&8 '$0*'3& ')(*%&*$ '4*, / = /%)!
%+ 2*1*4+ +%')('! ( )' &% '-*')2%1+#"2&*6' #2" &'% &"2)%(%16' <"2Y
24K)'-(*!' '1)"' %1' '&&"2)%(%16' '1<"224K)'-(*' -"6 ' *' &% '
/*2*' 1")*! B / %)' % 5%(4*' '+ K4)' 4K"1') / *' 2*+422*<)'"1' %16' 2*)(*&K'
)'"1' "#) / *' -"6 ' #2" &' <%224K)'"1!' %+' '#')' B*2*') / *' </'*#) / '10'
B / '</' /2'+)'%1+' B%)'*6' Z#"2!' %16' *RK*<)*6' #2" &' "42' %5'"42' %)'
'+ <"&'10!' "& 5''' 9?' *' &% '%(+"' 1")*') / *' K'"4+' "-+*2Y
5%)'"1' 6#) / * %) / *2+!') / %)') / *' #"(('"#) / '+*' <%1' 1*5*2' -*' +4##'Y
<'*1)('(%&*1)*6!' B / "' 6*K2'5*') / *&+*(5*+' "# +4</' % 0("2'"4+' 2*Y
+422*<)'"1' 2' 3& 4 / +')') / *' +%&*')'&*') / *' </%10*' / *2*' 6*Y
+<2'-*6 +/"4(6 -*' +*2'"4+(' %))*16*6') "!' %+' %##'26'10') / *' -*+)' &'Y
)'0%)'"1' "#) / *' <"1<*21' +"' %K)') "' "5*2B / *(&' 4+!' 4K"1') / *' %<<"41)'
*') / *2 "# "42' "B1' 6*%) / !' "2' "#) / *' 6*%) /' "#) 3'"+*' B / "' %2*' 5*2 '
6*%2) "' 4+' / *' -"6'*+' "#) / *' 2'0 /)*"4+' %2*' 1")' +B%((" B*6' 4K'
- ') / *' 02%5*' %+' % K2* ! -4)' 6*K"+')*6') / *2*' %+' %) 24+) ' B / '</' B'((
42*(' -*' 6*&%16*6' -%<.' %0%'1!' %16' "# B / '</' % K41<)4%(2*+)'Y
)4)'"1' B'((-*' *RK*<)*6' "' "4)' %6&'2%-.' ')420 ' /%)(")%40 /)'
"

4+' 1') / *' "##'<*' "#'1)*2&*1)') "' <"&&')') / *' -"6'*+' "#) / *' 6*<*%+*6'
) "') / *' 02"416!' Q' 1' +42*' %16' <*2)%'1' / "K*' "#) / *' 2*+422*<)'"1'7', "#
) / *' 2'P)*"4+' Q') "' *)*21%(('#*!') / 2"40 / ' "42' "26' 3*+4+' /2'+) '
B / "!G %+') / '+' K"2)'"1' "# <2'K)42*' %++'4*+' 4+!' +/%((</%10*' "42'
5'(*-"6 !Z) / '+' *%2) / !' %16' %+/*+!' %16' T 4+)!' Q') / %)') ' &% ' -*' (' .*'
41) "' '+' 0("2'"4+' -"6 !' %<<"26'10') "') / *' &'0 /) ' B"2. '10!' B / *2*- '
' '+' %-(') "' +4-64*' %(( ) / '10+') "' '&+*(# *%1' 03*- +

/%K' ' / *' *1<"42%0*' &*1)+') "' /2'+)'%1' <"1+)%1< !</**2Y
#4(1*++!' %16' 2*+'01%)'"' /!' %2*' <"1)'14*6' / *' K"+)(*' *RK2*++*) / '
) / *' 64*' +*1+*' / *' /%6' "#) / *' / '''KK'%1+' .'161*++') "' / '&!' %16' K2" ' ;
#*++*+' / '+' <"42%0*' %16' <"1)*1)*61*++' 416*2' %((" <"16)'"'1+' "# ('#*'
/ *' +%(4)%)"'1+' %16' <"1<(4+'"1' / (G
2' ;O', %(/'4 (' ,' `< a') '+' +<%2<*' K"++'-(*') "' ;*RK2*++'
%##*<)'"'1' &"2*' +)2"10(') / %1') / *' K"+)(*' /%) / ' 6"1*' '1') / '+' +/"2)'
5*2+*!' - ') / *' 5%2"'4+') *16*2' *K') / *)+' B / '</' / *' -*+)"B*6' '1') / *'
/ '''KK'%1+' #2"&') / *' 2*%(#**('10+' "# / '+' / *%2)!' K*1*)2%)*<(!' 1")'
<&(' B') / ' 02%)')46*' #"2') / *'2' %))*1)'"'1') "' / '&;'1' / '+' 6'+)2*++!' -4)'
B') / '*+)**&' '1' %<<"41)' "#) / *' *R<*((*1<*' "#) / *'2' </%2%<)*2' %16'
-*/%5'"42' %+' 5 .80&)3
+' O' %$ '/*8 ((*6 =' 3'"&') / *' K"+)(*' K%2)'<4(%2(' &*%1+!'
'+' 1")' %02**6' 4K"1' - '1)*2K2*)*2+' / (+' *' K2"-%-(' &*%/+'
K%K/2"6')4+!' B / "&!' '1' </%K' '' 9:!' / *' /%6!' <%((*6' / '+' Q' <"&Y
K%1'"1' '1' (%-"42 Z .3(0]& %+
6&3' (0' (*' / *' %1<'*1)' /2'+)'%1' B2')*2+) *((4 !
) / %)' 6'' +' +') / *' (*&*1)' B / "' %#)*2B%26+' -*<%&*' +/"K "#) / *
</42</' %) "&*' %16' B / "!') "' <"&K"+*' +"&*' 6'++*1+'' "1+' '1') / *
</42</' %)' "2'1) / '%-"4)') / *'2' +K'2')4%(04'6*+!' B2") *') "') / *' "7
2'1) / '%1+' %1' K'+)(*!' B / '</' '+' +)'((*R)%1)' ' %+' 5 .80&)3 +' +
? 63*' 0 ' %' &0' 3' 4**8' * ' + ' 9' / *' (H"".' "#('#*G
2*#*2+;) "') / *' <4+)"&' "# B*(("26*2*6' <')'*+! B / <//!' .*K)' 2*0'+)*2+
<"1)%'1'10' %(( ) / *' 1%&*+' "#) / *' <')'D*1+' 4)' "#) / *+*' 2*0'+)*2+
%+' %K"+)%)*+!' %16' #40')'5*+!' %16' '1#%&"4+' K*2+"1+' B*' *' *2%+*6!
!%02**%-(')"' B / '</') / *2*' '+' &*1)''1' "# Q' -(")'10' 1%&*+' "4)' "#) / *
-"".' "#('#*!G *5' ''' ' :' ' +") / *' 1%&*+' "#) / "+*!' B / "' <"1)'14*6'
"-*6'*1)' "26*2(' <')'D*1+!' B*2*' +)'((<"1)'14*6' '1' <<<B6'10(!
+'1<*' ('#*G '1') / '+' K(%<*' +'01'#'*+' +K'2')4%(('#*!') / *' +)%)*' "#02%<*'
%16' #%5"42' "# "6!') / *' -*0'11'10' "#) / %)*#4)42*' *)*21%(('#*!') / *2*Y
#"2*' Q') / *' -"".' "#) / *' ('#*G / *2*' '+') / *' 2*0'+)*2' "# %((+'1<*2*' /2'+Y
)'%1+!' %+' Q') / *' -"".' "#) / *' ('5'10!G '1') / *' +%(&'+)!' '+') / *' 14&-*2'
"# &*1') / %)' ('5*' '1') / '+' B"2(6!' #' "&' B / '</') / *' %2*' *RK410*6'
) / %)' <*%+*') "' -*' +4</' %+' ! 0$,+
C' 7*&.' &0' 3' *%,' (6 / a' 5*1' 416*2' "42' 02*%)*+)'
%##('<)'"1+' %+' ((' / *' K"+)(*' *1#"2<*+' %16' '1+'+)+' 4K"1'
) / '+' 64) ' "# 2*('0'"4+' $" ' '1') / *' (%))*2 K%2)' "#) / *' 5*2+*!' -*<%4+*'
'1')' &*+' "#K*2+*<4)'"1!' %16' '1' <'2<4&+)%1<*+' +"' 6'+)2*+++*6'%+') / "+*'
"#) / *' / '''KK'%1+!' ') &'0 /) %)' #'2+)' 5'*B' ("".' ('.*' % 64) ! '&S
K2%<)'<%-(*'%16' 41+*%+"1%-(*' &' 8*-' +' ;

ACAH

11")/'10+' /% ' K42*!' B/%)+"*5*2')/'10+! % ' ("5*(!' B/%)+"*5*2')/'10+' % ' "#'0""6' 2*Y K"2)' ' '#' 3 % ' 4 ' %1 ' 5'2)4*!' %16' '#' 3 % ' 3 ' %1 ' K2%'+*!')/'1.' "1')/*+*')/'10+ L' /"+*')/'10+!' B/'</' *' /%5*'-")/'(*%21Y *6!' %16'2*<*'5*6!' %16' /*%26!' %16'+**1''1' &*!' 6" ' %16')/*' "6'"#'K*%<*'+/%((' -*'B')/' "4 A ' 4)' '2*0"2<*6' '1')('* "26' 02*%)(!')/%)' 1"B' %)')/*' (%+)' "42!'<%2*' "#'& *' A/%)/' #("42'+/*6' %0%'1' B/*2*'1' *' B*2*' %(+"' ' %' <%2*#4(!' -4)' *' (%<.*6' "KK"2)41') ' U AA' ")')/%)' ' +K*%.' '1'2*+K*<)' "#'B%1)' #"2' ' /%5*' (*%21*6!' '1' B/%)+"*5*2' +)%)*' A%&!' 3 % 6&3' *' -*' <"1)*1)

)/*2)/*' #"2&' %' <"11*<)*6' %16' <"&K(*)*' -"6 ' ;1' 64) ' 3)+ 8 %' !

63 * % 3&0) ' % ' %$ J' /*')24)/+!' ZB/'</')' %4(/*2*' *R/"2)+!')/*' /'('KK'%1+!')'")/'1.' "1!' %2*' 416"4-)*6(')/*')24)/+!' "#)/*' "+K*(' "#' 3*+4+!' /2'+)!' B/'</' /*' /%6' 6*('5*2*6')'")/*&' /*+*' /*' B"4(6' /%5*)/*&')(N'1.' "1!' %16' K*2+'+)' '1!' %16' 1*5*2' -*' K2*5%'(*6' 4K"1' -' %1 ')*&K)%)'"1')'" 6*K%2)' #2"&' 6'*&' 4-+' 3 %-+

63 * ' % 3&0) ' % '3*0 'O7$ (' /*' 1*R)')/'10')/*' H K"+)(*'2*<"&&*16+'+!' 41'5*2+%(' /"1*+) !' %16'$4+)'<*!' %16'2'0/)Y *"4+1*++!' '1' "42' <"15*2+%)'"1' /*')B"' B"26+!' Q' /"1*+)G' %16' Q$4+)!G' &%' /*$"'1*6')"0*)/*2!'%+!'&K"2)'10'&4</')/*+%&*)/'10' "2)/"40/')/*' B"26'2*16*2*6'Q' /"1*+)G'&'0/)'-*'2*16*2*6'02%5*!' "2Q'5*1*2%-(*!G'%+!'1')/*' &%20'1' *)' +'1<*')/%)' ")/*2+'01'#'<%Y)'"1'#%((+!'1'&"+)'K2"K*2(' 416*2)/*'(%+)' /*%6'"#)/*'*R/"2)%)'"1!')/*B"26'&%' -*')%.*1'$/*2*'%+!'"42')2%1+(%)'"1'0'5*+')' 16**6!' '}' +!' 5%'1')"' *RK*<)' %1 ' %65%1)%0*' #2"&' "42'K2"#*++'"1' "#)/*')24)/!' '#B*' -*'1")' +'1<*2*('$4+)'%16' /"1*+)'1' "42'%<)'"1+' /"Y *5*2'<%1'%((" B' /'&+*(#'1')/*'K2%<)'<*' "#%1 ' 6'+/"1*+)!' .1%5'+/! '16'2*<)' 6*%('10!' (*)')/%)' &%1' -*' 1*5*2+'" "2)/"6"R' 1' /'+' -*('*# %16' "K'1'"1+!' *)' B*' &%' -*' +42*' /*' +' 1"' /2'+)'%1' 4-+' 3 %-+

63 * ' % 3&0) ' % '-$% ' *R)')" $4+)'<*')/*' K"+4* 2%1.+%5'2)4*!' +*(6"&' 5'"(%)*6' B')/"4)' 02'*5"4+' 1'$4+)'<*P')/%)' S#'+/411'10')/*' K"((4)'"1' "#<2'&'1%(' K(*%+42*+!' %16' K2%<)'+'10' Q' B/%)+"*5*2)/'10+'%2*' K42*' G' "&*.'16+'"#+*1+4%(' *R<*++!' %+' 0(4))"1 ' %16' 6241.*11*++!' %2*' %<.1"B(*60*6')"' -*'<"1)*&K)'-(* %16' /%)*#4(' 5'<*+' 16' /"B*5*2' #%5"42%-(')"'" &%1 ' ("".' "1')/*#2*' '164(0&'<*' "#%1")/*2'%KK*)')*!'%)' (*%+)' 1' "1*+*R!' *)')/*'2"K'1'"1'<%11")' %()*2)/*1%)42*' "#)/'10+' 22*04(%2'02%)'Y #'<%)'"1+!&4+)'+)'((2*&%'1' B/%)')/*' %2*!' 6'+/"1"42%-(*')"' "42' 2*%+"1!' 6*+)24<)'5*')"' "42' /%KK'1*++' 16' ')' +!+42K2'+'10')/%)')/*!B/"' /%5*' %1 ' 2'0/)1*++!' "#&'16!' <%1' #%'(*')/*2)"' 6'+<*21' "2)"2*#(*<)!B/%)' &*%11*++!' ')' +!')"' &%.*)/*+*)/'10+!)/*-4+'Y 1*++!' "#)/*'2-*'10' %16'%++"<'%)*!#"2)/*+%.*"#)/*&!'B')/')/* K2"#('0%)*'%16'%-%16'1*6' B/%)' &K246*1<*)"' 24'1' "2)"' /%D%26')/*'2 /*%()/+!#"2)41*+!' "2' 2*K4)%)'"1+!' '1' +4</' B2*)</*6'<"42+*+' %16' Uk2/%) &'+<'*#!)"' 6*+)2" ')/*' 5'2)4*'%16' K*%<*' "#)/*' '11"Y <*1)!%16' /%26*1')(*'04'() ' '1')/*'2<2'&*+:)"' 5'"(%)*' #%')/'%16' /"1"42!' 6'+)2*++!#%&'(*+!'*&-'))*2)/*' 1*%2*+)'%16')*16*2*+)'2*(%Y)'"1+!"#!'<"1#"416'6*+<*1)+!'%16'1/*2')%1<*+!'*R)*16'1!#%&!' K*2/%K+!' 6'+*%+*+;%(+"!')"' +4<<*++'5*' 0*1*2%)'"1+' 4-+ + 8 %+

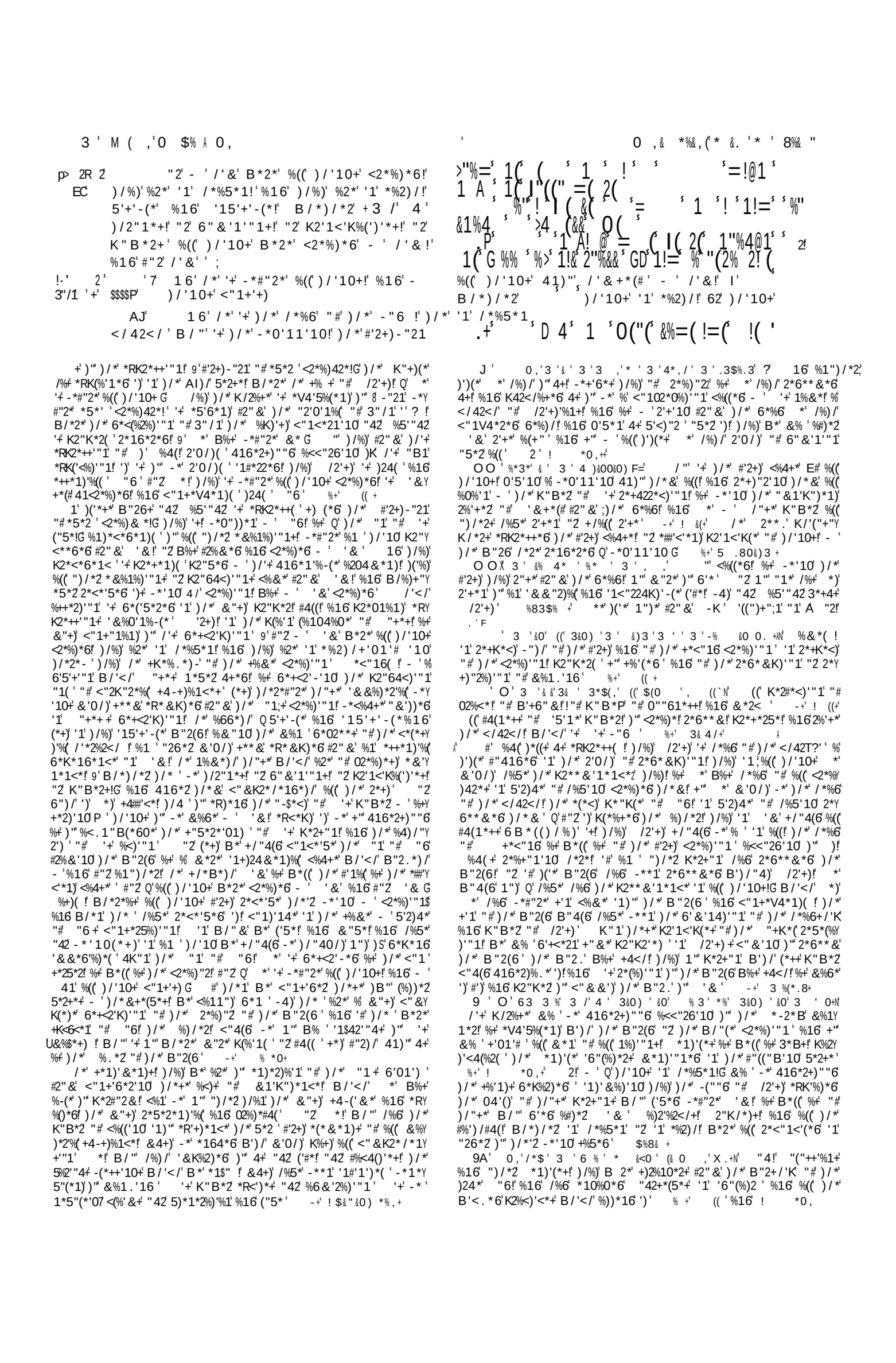
' 63 * ' % 3&0) ' % ' /.J%.' `<á /*' K"+)(*' /%5'10 '1+)%1<*6'1')/*')(410+!1*<*++%2')"' -*'6%'(')/'40/)'1'%16'K42Y +4*6-'%((;' /2'+)'%1+!' +4&+' 4K' /'+' %65'<*' '1' 0*1*2%(')*2&+' 1%&*(!)/%)!'%+!B*'%2*' /2'+)'%1+!'B*'+/"4(6'1")'1'(')%.*'<%2*' "#)/*)/'10+-*#"2*'&*1)'"1*6!-4)'+/"4(6'&%.*')';"42'-4+'1*++)" '&K2"5*'"42+*(5*+!'1'*5*2')"')/*2+"2)'"#5'2)4*'1%!'1'*5*2' *)/*2+"2)'"#)/'10!)/%)'+!K2%'+*B"2)/!'2*+)/%)'+!B*((*+)**&*6' %&"10)/*+"-*2K%2)'"#&%1.'16' "')/%)2*%((')/+!'2*(6' 4-+' 3 %-+

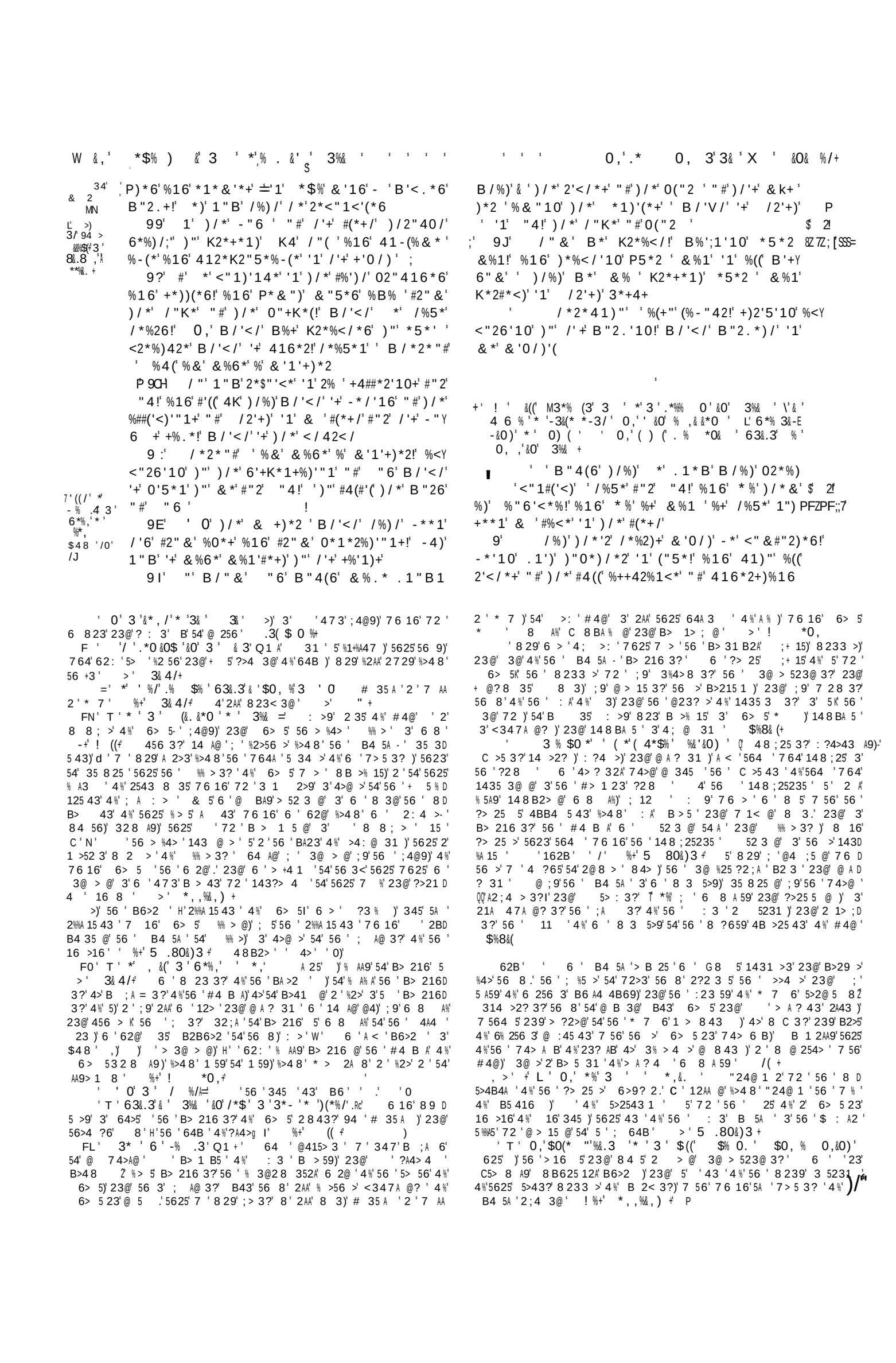
/*0""6'1%)42*'%16'%02**%-(*1*++!/*2*'2*V4'2*6'-')/*' K"Y +)(*!'+!1")')"'+4KK(')/*'2""&'"#)/*'$4+)'<*'%16'K42'#'2*V4'2*6' -*#"2*1"2'<%1'K"++'-(' &%.*'%&*16+!#"2')/*'B%1)'"#)/*& !-4)B*'&4+)'#'2+)'2*+"(5*)"'-*'11"<*1)!)/*1+)46')"'-*'%&'%-(*' "B)/*')B"'02*%)'-2%1</*+"#%&'%-(*'<"164<)!'%2*')"+*'1' B/'</')/*"+K*(3 3' '6+"K*<4('%2%+)2*++'&'(61*++!'1'-*%2Y '10'1$42'*+!'%16'-"41);';'1'2*('*5'10'1*<*++)'*+'1*'"#)/*&'*RY K2*+!(' &%6*)/*'<"16')'"1'"#"42'-*'10'#'20'5*1')/*')/*2)/*' #"416%)'"1'"#"42'-*'10'2*B%26*6' 4)!-*+'6*+)/*+*'*16*%2'10' 5'2)4*+!)/*' K")(*' 416"4-)*6('6*+'01*6')"'*1$"'1'*5*2')/*2

A ' 4)' '2*0"2<*6' '1')('* "26' 02*%)(!')/%)' 1"B'%)')/*'(%+)' "42!'<%2*'"#&*'A/%)/' #("42'+/*6' %0%'1' B/*2*'1' *' B*2*' %(+"' ' %' <%2*#4(!'-4)' *'(%<.*6'"KK"2)41') ' U AA' ")')/%)' ' +K*%.' '1'2*+K*<)' "#'B%1)' #"2' ' /%5*'(*%21*6!''1'B/%)+"*5*2'B'((' &%.*' "42' <"&&*1'$"421* ')/2"40/;')/*B"2(6'&4)4%((' <"&#"2)%-(*' %16' K(*%+10!' B')/"4)' &%.'10')' 6%10*2"4+' %''6' *R/'-')' 2*('0'"1' '1' ')+' 1%)'5*' </**2#4(1*++!' %+' % 2*%+"1%-(*' +*25'<*' K%'6')"'%1'1'1#'&;)*('0""6' *'10' "2'%((')/*+*' ;')/'10+' %2*' <"&K2*/*16*6'416*2)/*' </%2%<)*2' "#Q'("5*(G' %16' <"1+)')4)*' %' &4</' &"2*' 5%(4%-(*' K%2)' "#' /2'+)'%1' K2%<)'<*')/%1' &%1 ' +**&')"' -*' %B%2*' "#' 16**6' K'*)' %16' 5'2)4*!' /"B*5*2' 41K"('+/*6!' 6*+*25*' /'0/' *+)**&' %16')' B"4(6' -*' %' &"+)' 41' 1%KK' &'+)%.*!)"' K2*#*2' +4K*2#'<'%(' %<<"&K('+/&*1)+' -*#"2*' '1')2'1+'<.' B"2)/' 4)' +)'((!' -")/' 2*('0'"1' %16' &"2%(+!' 6'+04'+*6' 416*2'%#"2-'66'10'("".!' %KK*%2+"' &4</' (*++)"' %65%1)%0*!)/%1' B/*1')/*' B*%2' %1' '15')'10' "1*')/%)' B*' B2"10' "42' K2"#*++'"1!' %+!B*((%+"42+*(5*+!'#' B*' 1*0(*<)"' +/*B')'1' %+!&4</' -*%4)!' %+!%' &"6*+)' +'&K('<') ' B'((K*2&')' %16')/4+)"' Q'%6"&'/*6"<Y)2'1*!"#' "6' "42' %5'"42' 1' %((')/'10+!G')' '' A ' 4&+ .8 b

OOO' 3&08'*0'3 ' 3&0)+' '0*1*2%(' "-+*25%)'"1!B/'</'B*' &%' &%.*"1')/+!6'2*<)'"1' "#)/* K"+)(*!'+!)/%)' B*' <%11")' Q')/'1.' "1')/*+*)/'10+G' 1' *%21*+)!'%+!*1$"'1*6'-' "42'2*(0"1!' B"/"4)/"1"42'10')/'0/(!'%16'-*'10'+)2"10('&"5*6'-''')"' *5*2'K%2)"#'2'0')*&K*2'%16'2'0/)'<"164<)' 4</'K2*<*K)7 *5'6*1)('K2"5*!)/%)' /2'+)'%1')'+1")' %<"1)2'5%1<*)"' &%.*' &*1!-'#'')/'1'+K*<4(%)"1+!'%16'*R%<)1*++'1"-+*25%1<*;+!/%KK' '1'%1")/*2B"2(6!B')/"4)'-*'10'0""6'1')/*K2*+*1)' 2)'<(*+"#' -*('*#!'%16'1+)')4)"1+!"#B"2+/'K%2*'1+)24&*1)+1*5*2'/"K*)"' -*! %&*16*6'2'%<<*K)*6!41(*+' *)%.*)/*B%')"' -*+"!'B/'</' "6'/%)/'&%2.P"4)' 4)'1*')/*2&4+)'B*'/"K*!')/%)%#"2&%(4+*"#)(*'&*%1+!B'((-*+4##'<'*1)!B')/"4)+*2'"4+<%2*)"'%)%'1')/*'16' Z' "B')/*'16'"#)/*'<"&&%16&*1)'+</%2') !G("5*)"' "6'%16'&%1!Q'"4)'"#'TK42*'/*%2)!'%16'"#%0""6'<"1+<'*1<*!' %16'"#%')/'41#*'01*6!G'A '&''':'B/'</'B"26+'*RK2*++)/* 5*2'+%&*)*&K*2B')/')/"+*"#3'-*(''1')/'+K%++%0*' 4-+ 8 %+]

/'+'+')3'*&"2%(')"#)/*"+K*(!*1)'2*(#2**#"&)%)*1')/4+'%+)'<%(K2'6*!B/'</!*(%)*6'B')/')+!+4K*21%)42%(+%1<)') ""K+1")"')"')/*<"1)2"(#"2*%+"1'%16'4))*2()*2&")*#_12)/%)*1)/4+'%+)'<%(*R)2%5%0%1<*!B/'</!/422'*6'%B% '-'+K'2')4%(2%K)42*+!%16'*<+)%<'*+!+K421+)/*#**('10+"#1%)&*!%16')/* 2*+)2%'1)+"#6*<"24&'/*"+K*(04%26+)/*6'01')"#2*('0""1!; -'*10%0'10''1')+!+4KK"2)24)/*%16'$4+)'<*!"26*2%16'K2"K2'*) ' $2'%'+ L'3* ' 3&0) '63&.3'/'3 ''4*3'(%0 ,'` '"'4&'*RY /"2)%)"'1+)'%4(+4-$F1+!B')/'<"1+<"4+-"(61*++!%KK*%('10')" %((B/'</'9')/*'/%6'(*%21*6!'%16'2*<*'5*6!'%16'/*%26!'%16'+**1' '1'/'&!G)/%)')('+/%6'-**1'/'+!"B1'6'+K"+')"'1"%16'-*/%5'"42' *)/4&-('<"1+'6*2+/'&+*(#%+!B'1")'/%5'10'%(2*%6'K*2#*<)!G-4)' &*2*('%+!Q'K2*++'10')"B%26')/* &%2.'#"2)/*K2'D*"#)/*'/'0/'<%((10"#"6!G</%K'''' J'AC' %16'1")'"1('4+*+/'+!"B1'Q'K2%*2+7G-4)'-*0+)/*'2+!%(+"!)/%)!Q')('2"40/')/*+4KK('#)/*K'2')'"#3*+4+!/2'+)!Z%((')/'10+!&%' Q)421')"'/'+!+%(5%)'"1!G</%K''' !9 *'<%11")/*(K/'Y 1"42'10'+4</'%</%2%<)*2'-4)!'#B*/"K*)"'-*-*))*2#"2')!6' &4+)'%(+"'&')%)*')' 4-+ 8 %++ 2'!'O'3''(%0,'&0'63&*'% ' ' 3%6&3'*'4' .*0 0+!/*/2'+)'%1')2%5*((*2!<"1+'6*2'10'/'&+*(#%+!+4</!' %16'("".'10')"/*'*16"#-'+$"421* !)%.*+4K'B')/')/*%<<"&7





$(' M3*% &3' *' .*0 0./'&0' 3%&

''1' ' %<.1"B(*60*&*1)'"#')/*'& +)*2
' "#' "6!'%16'"#')/*' %)/*2!'%16'"#' /2'+)
' >) ;' ?' ' 1'B/"&'%2*' /'6'%((')/*')2*%+42*+' "#'
63% + P$+$"&'%16'.1"B(*60*
C; 16') /'+' +% !'(*+)'%1 '&%1'+/"4(6'
-*04'(*' "4'B')/'*1)'<'10'B"26+
>' "2') /"40/'A-*' %-+*1)' '1') /*' #(*+/!'
)'%&' 'B')/' "4''1')/'+K'2')!'$" '10'%16'
-*/"(6'10' "42' "26*2!'%16')/*'+)*6#%+)1*++'
"#' "42'#%')/'1' /2'+)
E' +' *' /%5*')/*2*#"2*' 2*<*'5*6' /2'+)'
3*+4+')/*' "26!' *'B%(.' *''1'/'&
I' "")*6'%16' -4'()' 4K' '1' /'&!' %16'
+)%-('+/*6' '1')/*'#%')/!'%+' *' /%5*'-**1

T T'&*' 3' .80*6(,) 0'*'3''%/'*',' 0,'&'3'
W 3%' 0,'*' 3%& ' ['&45A'5;''256>)'23@' 6>5-' %+'
! *0,+' 625')'56''?>25'895>9'4%'>A?43)'76>3'#4@'
'>:2A@'54'83' -+'!((+'A'\6'11A 2512A'5>2@543)'256'
>32)'['5216 56' '54';A :'3'#4@'56''256>'483B45 35)'
7E4'82@'62:3'23@' 2>56'.'23@' 3'43''* ' 6>5)'56' 43'4%'
#4@)' 312>325'%4>'4>' 2A:2543)'4>'">@)'#4@)' 2:4>)'23@'
!3?-' 3@' 4'56 '74>@'829';'143 5> @)'['56'89 5>9'4%'
;456'56''256>)'23@' 6>5-' %' 3& 4/+
H+' 0'63*' %'&,'((' 3'% $% '*'6& ,*' 0,'80*6(,)+'
625')'3'* ' 6>523@' '#4 B A' $%8& G' 4'5625'756D
4 5' 8'56 9'123345';'62@)'23@';9' 8'56 9'2>'8B2>5@' 354'
'%2 56% A'%4AA47>'%4>'56 >' 2A:2543' -+'!((+
>+' '/' ' '6& 3'/*$'&0' 3' -&%&' 64 ?6'345'B>432AA9'
B> 357 56'94)'95)';9'56' 3%4>8 25 43'>1 :@'%>48' B2B6>2)'
' 3@>523@'647'2AA'56 3?''?4'756'94)'23@' 4'28' 3'6 2>5'4>'
B>5'B> 357 56'94 ' %+'! *0,+
>'7*/&0)' 0,'4 8*(,&3)'(625')'7 5<'+49';64A@ 3?' %+
((+
\+' 6%'(' 0/' 0' -*&(/*$' A 3@>'94)'>4;'94)'16 25'
94 '4%'2AA'5625'94 '62:)'94 >'B>31BA '4%' 6>523'<347A@?'
%+'! *0,+
T TT' 3%*$)3' -3&(* *-3/' 0,'' &0', . & F= 6' 8 23 3?')'
56>4 ?6'23' 8B59'23@'@1 5% A'B6A4 4B69' 6' B4 5A'@4'
345' 14%A@ 83' 4 3@'B6A4 4B69)';5'5625'<3@'4%'5)'7616'6256'
34' =23@2543' 3'5> 562'23@';3?'%4>8 @'8 >A9'%>48' 82?32D
543)'2@@';9'56 'B>@'4%'6 823'>243)' BB4>5@';9'56'
5>2@543)I'5625')'56 '2%%>8 25 43'4%'56' 3:354>)'A=23@@'@473'
%>48'43'54'23456>' 6'@415>3'4%'56'6 256 3'B6A4 4B6>'
'12AA@)' 56'5>2@543'4%'8 3)I';12 '5'72'>1 :@' 4A A9'
43' 56'2 564>59'4%'56' 82 5>'764'@A:>@' 5' %+'5 .+'
80&)3+
%' 3'%$,& 0'*'3'6 %(,= 6'6 256 3'>A?43
4>'74> 6B)' 4'12AA@';12 '56 9'14352 3@'43A9'56'%>5'B>3'
1BA'4%'B 59)' C1 @3?A9'14>> B5@';9'@4A25>9'23@' B>5543'
%+'5 .80&)3+ 3' #2A':'H' 5' 2A'56 '@348325'56'
1>8432A'4>@3231 '4%'56' 4 21<'A27' & 5'6>'9'56'>@D
8 35)I'4>'H'A 8 35'4%'56'74>A@)\'2>' 4'1A4 A9'1433 15@'756'
9'B6A4 4B69'23@':2 3'@1 5)I'4>'23' 8B59'23@'@1 5% A'B6A4 4D
B69)'5625'56 9'8 5'6' 3@>544@'54' 31A @'25'A 2 5'56'@4?82'
4%' 2?23'B6A4 4B69'+'54'76 16)'34'@4>;5)' 8239'4%'56' 4A4 23'
7>' 3'56 >' 3143:>5@' 525'255216@)'23@'4%'76 16'56'*@22'
3?'5216>)'764'2A 4'7>'B>4;2;A9'56 8 A:' 3% 15@'756'
56 8)'544<' 2@:2352?)'54'756@>27'56' 4A4 23'143:>5'%>48'
56'B>59'4%'56' #4 B A)'23@'%>48'56 >'5> '6 2@' 6> 5' 3@'
%>48'56'?3>2A'534 >'4%'56 '162B5>)'23@'B2>51 A2>A9'%>48':>
/LTF)'52BB 2>'5625'56 'B6A4 4B612A'@4?82)'2?23 5'76 16'
56' B4 5A'12 543@'6 '143:>5)'7>'B2>5A9' A2543 1<)'23@'
B2>5A9' 9562?4> 23K'56'%4>8 >'5 216 3?'56'74> 6B' ;%'@ 843'
4>'23?A)'2'8 @254>';57 3' 823'23@'#4@2'56 'A255>' 3+4 3D
3?' 162;53 31'%>48'B2>51 A2>'<3@'4%'8 25'23@'@>3<)'2>@'
16' :>'84>5%12543'4%'56';4@9)'2'#4@';2@'345'148823@@'
%88$% + =
)' >'&0'3& ',6((3' ((' 3'$(0 '*'3' *,3 ,'4*,&(/+' '4>
,4'

' AA ' '9'

)%40/)!'%-"416'10')/*2*'1'B')/')/%1.+0'5'K" ' '
'10' EC
J' *B%2*'(*+)'%1 '&%1'+K"'(" 4')/2"40/'
K/'("+"K/ '%16'5%'1' 6*<*')!'%#)*2')/*')2%Y
6')'"1'"#'&*1!'%#)*2')/*'246'&*1)+'"#')/*' (0 +
B"2(6!'%16'1")'%#)*2' /2'+)
L' "2'1'/'&'6B*((*)/'%((')/*!P#4(1*++' "#',
)/*' "6/*%6'-"6'(
A' 16' *'%2*'<"&K(*)*'1'/'&!'B/'</'
'+')/*'/*%6'"#'%((K2'1<'K%(') '%16'K"B*2
AA' 1'B/"&'%(+"' *'%2*'<'2<4&<'+*6'B$)/'
)/*'<'2<4&<'+'"1' &%6*'B')/"4)' /%16+!'1'
K4))'10'"##)/*'-"6 '"#')/*'+'1+'"#')/*'#(*+/'
- ')/*'<'2<4&<'+'"1'"#' /2'+)

3' 8'56'764A'#4@62@'@7 AA 56' 352AA9)'2B@'56' :3'
325>' '345'43A9' 35@'54'56' 4A'4%' 6>5)';5'54'56';4@9'
2A4'.'23@' 3' 8'6256'#4@)'% AA9'>:2A@' 8 A%'54'5>'74>A@'
-+'!((+ 4 5' 6> 523)'2?> 2;A9'54'56'A5 2A' 8B4>5'4%'56'
74>@)'>3@>@'9'% A3)I'64A@'5625'9'56'% A3 '4%'56'#4@62@\'
143 5 5A'3'56'% A3 '4%'B >% 1543'23@'?4:>38 35)'76 16' '
352A'54'56'#4@62@.'23@'5625'% A3 '56 9';A :' ' 3D
52A'54' 6> 52'56' 43'4%'#4@' %+'5 .80&)3+ 9'&4@A9'
5625')'3'56';4@9'4%' 6>5)'2'4BB4 @'54'56'*7 6'52;>321A)'
4>'5 8BA'Z'5> A9'23@'>2AA9)'3'4BB4 543'54'59B '=@'%?>'.'
345'43A9'%% 15 2AA9)'2'#4@'@7 AA' 3'?44@'8 3)';5' ;52+52AA9'
4>'B>432AA9)';9'56' 5>15 5' 343)'2'56' 4A'@7 AA' 3'56'
;4@9)'4'5625'9'#4@'23@'823' 43' 6> 5I' 48B2>'*463' '
J Z C:' T ' %88$% +
&9'56' B6>2 '56' B4 5A'8 23)'5625' 3' 6> 5)'2' B23)'2AA'
56'%A3 '4%'56'#4@62@)'56'764A' :3' 31'23@'?A4>9'
@7 AA 56)'345' 3'2'%?>)'A<'2' 62@47)'4>' 3'2BB 2>231'43A9)'
;5'3'2';4@A9' ;5235A' 8233>)'3' ':>9';4@9K%4>'4A44<'
B43'56'74>@'9';4@A9)I'2' @';9'56' B4 5A'2A'4%4>' CBA12D
543)'54' 6 7'5625'76 3'6'2@)'5625'H56'%A3 '4%'56'#Z=@62@'
@7 AA 56' 3' 6> 5)I'6'8 23 3?'72)'5625'5'@7 AA 56' 3' ';4@9'
4>'%A 6)'2114>@3?'2'6'6 8 A%' A 76>' CBA2>'5)' 29 3?)'5625'
\#4@'72'823% 5' 3'56'%A 6)I' 8' A' A564 ?6' '
72'5>A9'823)'23@)'76A5' '72'43' 2>56)' 3'2AA' 4 572>@'2BD
B 2>231' 8@'54' ;'34'456>'5623'23'4>@32>9'823)'4%'23'
2>56A9';4@9)'3%4>8@'756'2'>2432;A'4A)'2'456>'3 3'62:.'
9 5' 3'5625';4@9'@7 A5'2AA'56'%A3 '4%'56'#4@62@+'56'764A'
:3' 31';3?'%C@' 3'5)'23@' 35@'54'5)' 3' 16'2'743D
@>%A'23@' :3'8233>)'5625 '72')'23@' 2A4)'5>A9'#4@'
823% 5' 3'56'%A 6)'56'43'A:3?'23@'5> '#4@)'56' >254>'
23@'#4:>34A '4%'2AA'56 3?)'*A4:=)'\'56'"4>@)'56'"B>@'#4@)'
8>1%A'23@'8214)'A43? %% >3?)'23@'2;3@235' 3'?44@3 '
23@'5>56)I' C4@'CCC:'D2'4>)'2' 5'*463' CB> '5)'\% AA'
4%'?>21'23@'5>56)I'*463' Y+' -+' '%&,)+' A
' 5' '54';'6>'4;>:@)'5625' 6>5' 345' 2@'54';'%AA@'
7 56'56'%A3 '4%'#4@)'2'56'16>16'
7 56'76 16' 6'72'>BA 3 6@)'23@'56' @415>3' 6' 62@'>D
1 :@'%>48'#4@)' B6' 'F'K';5'56'764A'%A3 '4%'56'#4@'
6 2@' 6>'2@'54'>@'3' 8)'76 16'8 5'2>?' 8'54';'
34'A '5623'5>A9'23@'>2AA9'#4@)' 148BA 5' 31'@7 AA 3?'
3' 8' AA'56>%4>'8?65'56' B4 5A'2@@' 3'56'3 C5':>)'
\('2>'148BA 5' 3' 8)I'9'3 @'345'?4'54'5A' B6A4 4B6>'
%4>'<347A@?.'9'7235'34'456>'>G 5'54'94>'2A:2543.'9'
62:'2'5625'>G >@)'%'9';A :'23@'4;9'23@'74> 6B' 8)'
764' 'H56'6 2@4%'2AA'B> 31B2A59'23@'B47>I' $%8& '%+'
3& 4/'23@' ((+
' T'3'4*,/'*'3'&0'*'3' 3JJ' 6'B6>2 829' ?3%9)'
>56>'56';4@9'756'5' 3%A'A 5.'4>'56'764A'82'4%'56'
3'4%'56'%A 6)'2114>@3?'54'56' '4%'56'74>@'H';4@9I'6'56'
;>7'A23?2?' 6' 4A4>23'2>' 2@'54'62:'&3'1>D
181 @';9'56'B 55 3?'4%%'4%'56' 3'4%'56'%A 6)'3'> B 15'4%'
56>';2B5 8)'2' 'BA2 3'%>48'56'3 C5':>' '4>)'2114>@3?'5'
56' 8;A 825 12A'8 23 3?'4%'5625'>5)'5' ?3%@'56'1>1%C43'
23@';>2A'4%'56>'4A@'823)'4>'14>> B5'325>)'7 56' 6> 5)' 47
/N X

MN A9' 42'*6'B')/'/'&' '1'-%K)'+&!'B/*2*'1' %(+"' *' %2*'2'+*1'B')/' &')/2"40/')/*'#%')/' "#')/*' "K*2%)'"1'"#' "6!'B/"'/%)/' 2%'+*6' /'&'#2"&')/*'6*%6

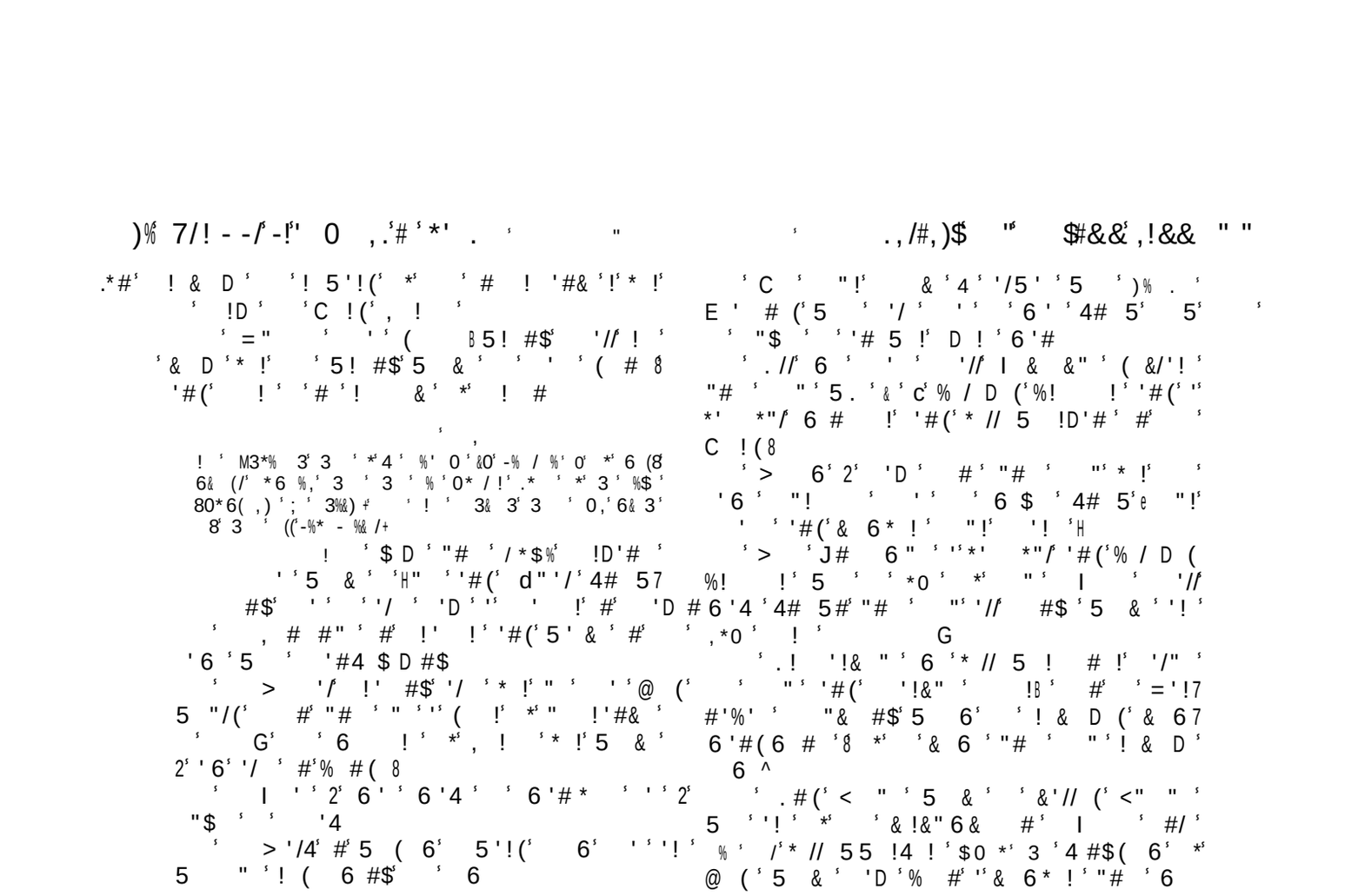
A?' 16' "4!' -*'10' 6*%6'1' "42' +$1+' %16')/*'41<'2<4&<'+'"1'"#' "42'#(*+/!'/%)/' /*'V(''<.*1*6')"0*)/*2'B')/' /'&!' /%5'10' #"20'5*1' "4'%((')2*+K%++*+'

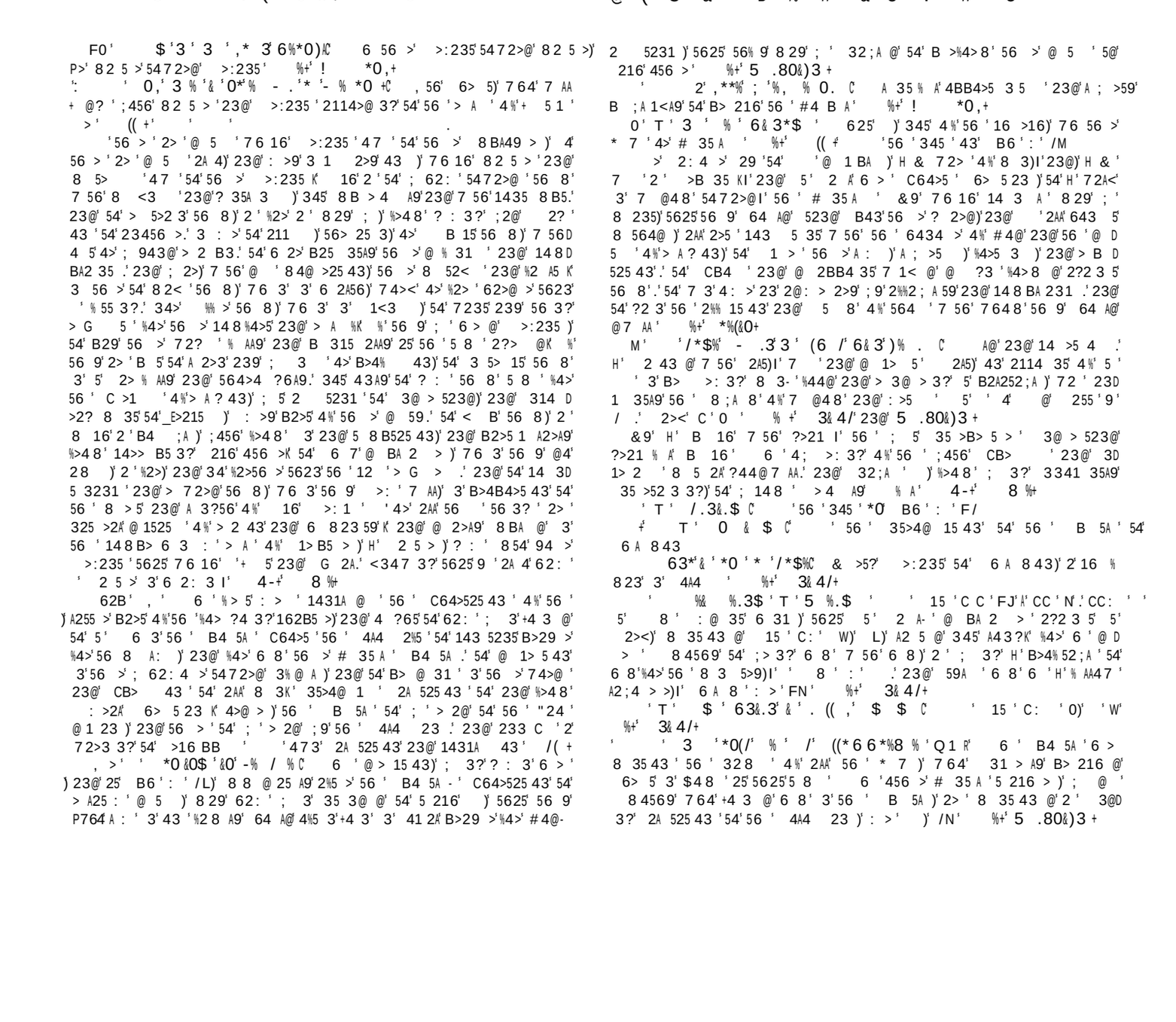
YN ("))'10'"4)')/*'/%16B2')'10'"#'"26'Y 1%1<*+')/%)'B%+'%0%'1+)'4+!'B/'</'B%+'<"1Y)2%2'")"'4+!'%16')""."')'"4)' "#')/*'B% !' 1%'('10')')" /'+'<2"++'$

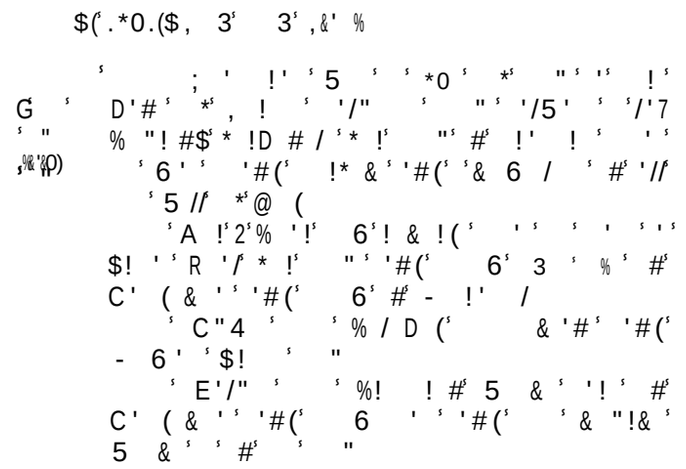
>' 0,'/%5'10'+K"'(*6'K2'1<'K%(')'*+'%16' 11" K"B*2+!;/*' &%6*'%' +/*B' "#')/*1'" "K*1(!')2'4&K/'10' "5*2')/*&'AA'1')' X(,"2)',' AE' *)'1"'&%1')/*2*#"2*'$460*' "4 '1'' 2' &*%)!'"2''1'62'1.!'"2'AA'1'2*+K*<)'"#'%1'/"(WZ;' &0) 6% !'"2'"#')/*'1*B'&""1!'"2'"#')/*'+%--%)/'&0)⁄ , - ' ; ' 1ZZ '/'</' %2*'%' +/%6"B' "#')/'10+')"' "2P <"&*' -4)')/*'-"6'&'*' /2'+)' 5) T \' *)'1"'&%1'AA-*04'(*' "4'"#' "42'2*' B%26')'1'%' 5"(41)%2'/4&'(')' %16' B"2' +/'KK'10' "#' %10*(+!' '1)246'10' '1)"')/"+*' $ /

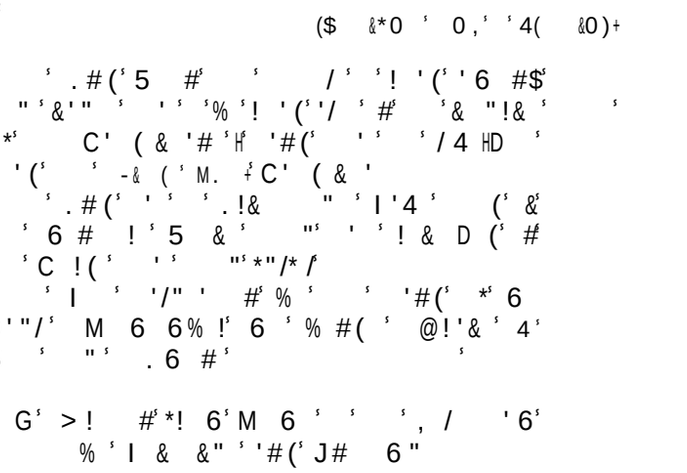
56)' ; 3?)'23' 372>@'1>1 81 43)' 829'%5A9' ; '12AA @' 2'\'1>D 1 81 43'82@'7564 5'623@ I' %+' 5 .(0&)3⁄ i 3/' 3'.&%.60.& &*0'*' 3%& ' ' 625')' ;9'56' 6> 523 1>1 81 43)'4>';2B5 8' %+' ((+ /F' $%& ,'6&3'8&%0'&0'46-& +F= ; '4 572>@' 98;4A'4%'4 >' B>5 2A'1>1 81 43)'23@' 4'@ 2@'A +54' 3)'$48':'FTN' %+' 3& 4/+' '56'345 '43' ; '-) '6 >'> % >> @'54 / '+,0,'/*$'4 &0)', ,'&0'/*$%' &0'Q1 ' & 3?6 256 3'23@' 31>1 81 @⁄23@' 4'7564 5'> G >3?'564 'A ?2A'B >%4>8231 ' 4%'94 ' '6256'>1 :@'94 '354'14: 3235)'62: 3?'52< 3'94 '4 5' 4%'94 >' 6 256 3)' @2><)' @ 2@' 143@5 43' %+' ! *0,⁄ 6 ' B4 5A)'62: 3?' 2@'9 >'/F)'5625'56 ' 4A4 23'7 >'> 3'7 56' 6> 5)'2@@'56'B> 35'1A2)'345'2'2'3 7'@ 5 315'B2>5 1 A2>)' ; 5'43A9' 2'2' %2>56 >' AA 5>25 43' 4%'56 '?>21'4%'56 '#4 B A.' 328 A9)'5625'#4@'62@' 4'G 1< 3 @'23@'>2 @'56 8' B'54? 56 >' 7 56' 6> 5)'H' : 3'76 3'56 9'7 >'@ 2@' 3'56 >' 3 I' 6 > D %4>'56'143+ 315 43' 3'56%'BA21 ' '; 5'> 3@ >@)' 345'H'23@)\' ; 5'H' : 3' 2'5' '3'56 'B2>2AA A'BA21)' B6' '0' ' %+' ((+ /N' (* &0)'*$'3'3 0,6%& &0)'* '*%,&0 0. 'Q ' 3'2AA 43' 54'2'B>215 1'28 43?'8 3'764'1231 A'; AA '23@';43@'23@'2AA'4;A D ?25 43)'76 > 3'56 9' 544@';433@)'76 3'431'56'@ ;5' ' 25 D % @' 47)' 29'56 ' B4 5A)'94 >'@ ;5'4%' 3' 'B2 @'54'56'+ D 5 1'4=' #4@';9'56'@ 256'4%' 6> 5.'23@' 3?'56'4;A ?25 43' ' 1231 AA @)' 5'74 A@';'82@3 '23@' 8 B 59'54'> 3 7' 5'2?2 3)'2' 564 '@4'764'BA 2@'%4>'1>1 81 43)'23@'B>215 '56'A ?2A'1>D 843 ' $%8& ⁄ 6 '1488 35254>' 4;>:)'5625' 3'56' CD B> 43'H';A455 @'4 5!'56>' '23'2AA 43'54'56'@ 162>? 3?'4%'2' @ ;5)';9'@ %21 3?'56 ' 7>5 3?'76 16'14352 3 @'56'4;A ?25 43'54' B29'.'2' 3'56 ' ; G 35' CB> 43)' 32A 3?' 5'54' 56'1>4)I' 56>' '23'2AA 43'54'56'231 35'1 548'4%'2;>4?25 3?'A27)';9' @>:3?'2'32 A'56>4 ?6'56'52;A '43'76 16'56 9'7 >'7>55 3'23@' 6 3?' B'54'B ;A 1<': 7' %+'5 .80&)3 + /0' 0,'3 '3&)' -*&(,'-%&0.&-(& & ' 0,'-*6 % '% 1 *' 28 A9)' 56'B47 >'4%'7 1< @3)'56' B>5'4%' 2523K' '" < 'CC '0 .' B6' ' F.'*463' C A.'C:' L .'23@' 148B2>' B6':' /F' 6 'B47 >' 6> 5'@ 5>49 @';9' '1>4 .' ' ; '&&+' Y' /0'K ;9'56' 328 '4%'2' 1> 1% @'*)'23@';9'56' : >9' ?3'4%'56' 1>4 =@ B4A3?'56'B> 31'4%'56 '74>A@'4%'6 '@48 343)'B 553?' 6 8'54' A 31)'12 53?'6 8'4 54'4%'6 '5 8BA '23@'4>21A)'23@'4 5) 4%'564 '6 823';4@ '76 16'6'B4 @.'4'4B 3A9'143:31D 3?'56'6 256 3'5625'56'@ 5 '56 9' 4'A43?'62@'74> 6 BB @' 7 >' :A' B>5.'23@)';9'56'8 >21A '7>4 ?65' 3' ')328)' @>27 3?'56 8'%>48'56 >' @4A25>4 'B>215 1'54'56'5> ' 6> 523' %2 56' % +' 3& 4/'! *0,'23@' ((+ /M' '0*' 0' 3 % *% '7$,)'/*&I' ' %'9'@'@'28)' 3'345' 4; >:3?'56'A ?2A'@ 5315 43' H' 3' 8 25' 4>' 3' @> 3<)I'4>' 3'> D B 15'4%'94 >'345'4; >:3?'9'23'64A9@29)'Q1 I' %+' ((6)' 23@'7625'%4AA47'54'56' 3@'4%'56'162B5 >)' %4 3@'@'43'56' @415>3'@ A:>@':>'/)'5625'56' 4A4 23'7>'82@' 148D BA 5' 3' 6> 5)I'2'54' :>9'56 3?'3 1 2>9'54' 2A:25 43' '4>' 3' 5625'12 '56 9'7 >' 3@ >' 34' 4;A ?25 43'54' 4; 9'56'* @2 U 3?' 5 216 >)'76 3'56 9' 3+4 3 @'56'>5 '4%' 4)'56'74> 6 B'4%' 23? A)'4>';4@ A9' 84>5%125 43)'2'56' 8 23'4%' 2A:25 8 ' %+' 5 .80&)3 + TTT'U<' 3*(/, /'*%'* '3'0 6' **0'*%'* '3' 44 3', /'- ' 6'6% +'"-+*25*6'%&"10+)'/*'* 7'B*2*'"#')/2**' "2)+%11'Y 5*2+%2 !' 76 16)'2*)421*6'*5*2 '*%2!'<%((*6'/*2*'9'%1' 3*(/, /2B

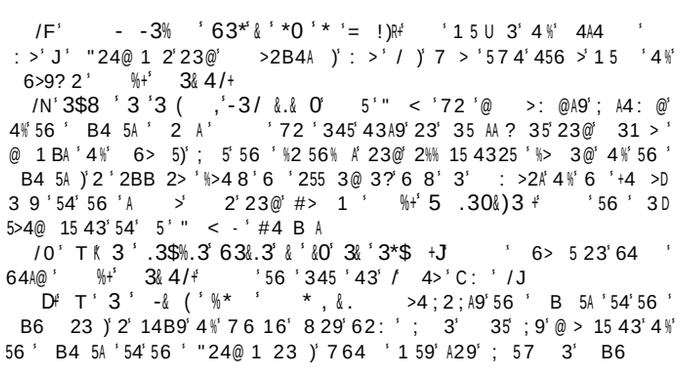
A 2>9)'76 16'>5 >3 @' :>9'84356)'56'%>5'@29'4%' :>9'9'3 7' 8443.I'7 <A9)'76 16'>5 >3 @' :>9'7 <)'23@'43'56' :356' @29'4%'56'7 <.'2AA'56 '2>'2;>4?25 @)' :3'56'*7 6' D :356 @29' 2;;256.'23@'56'"4>@ '@29)'4>'56' 6> 523'%>5' '@29'2;;256' ;55 5 @' 3' 5'>448)'/ 4>)'C,'F' $%8& ' %+' 3& 4/+ '>48'56 '5 C5' 5'62';3'>2 6A9'1431A @ @)'562556' 2315%12D 543'4%'56' :356'@29' 34' 3@ B 3 2;A'@ 59' 3'56' 6> 523' 16 >16.'N.625' 5' 43'4%'564 '12>32A' 4>@ 3231 '4%'56'*7 6' > A?43'76 16'4 >'"4>@'6256';A455 @'4 5' 6'5> 56')'647:>)' 5625' 3'56 '2B4 54A 12A' 2?)'56 '%>5'@29'4%'56'7 <)'564 ?6' 5' 72'4; >:@'7 56'?> 25'>:>31)'72'345' 12AA @'56' 2;;256' @29)' ;5'56'"4>@-'@29.'5625'56' B2>25 43' 4%'56' 6> 523' 16 >16'%>48'56'*7 6' 1488 3 43' 8 ?65' ;'82>< @' ;9'56' 328 '2'7 AA' 2';9'56 '@29'4%'56 >'7 <A9'% 5:2AK' 23@'56' 328 '4%'56' 2;;256'@29'72'2BB>4B>25 @'54'56' 25 >@29'23@' 1>52 3'@29' 3'56'*7 6' 16 >16)'76 16'7>'A<7 '12AA @' 2;;256'@29' 3'56'*7 6' 16 >16)'76 16'5' 2 A' B 2<' 3'56 'B2 2?)'7>'345 56' 3@29'4%' 6> 523)';5'56' 2D 5 >@29'23@'456 >' 2;;256'4%'56'* 7 6'12A 3@2>' 6'* @2 UD 3?'6>5 1<)'7 56'7648'5' 2 A'72'2AA'6 'A%' 3?2? @)'7>' 5> 3 4 '2@:4125 '%4>'56'4; >:25 43'4%'56 '* 7 6'% 5:2A' 3'56' 6> 523'16 >16.'23@'6 '2@843 543'54'56' 4A4 23')' 5625'56 9' 64 A@'345' ;'@ 5>;@';9'56'>B>4216 '4%'564 '' 764'1 3 >@'56 8'%4>'3 ?A 15 3?'54'4; >:'56 '* 7 6' 2;D ;256'7 56'* 7 6'1>843 ' 5'2BB 2>'%>48'56'%>5' B 5A' 54'56' 4> 356 23)'5625'56' 3@29'72'4; >:@' 3'56'16 816' 4%' 4> 356'7 56' 5' 2 A-'473'2BB>4;25 43'.' 5'2BB 2>'%>48'56' B412A9B)'5625'5'72'? 3 >2AA9'4; >:@'3'56'5 8 '76 3'5625' ;44<'72'7>55 3';9' 5'*463.'23@' 5' 8 3543 @';9'56' 2>D A 5'2B4A4? 5'4%'56' 6> 523'%2 56'2'2'3 1 2>9';>2316'4%' 6> D 523'74> 6 B' & 5'56' 2;;256'4%'56'* 7 6' 16 >16'2>'2;4D A 6 @.'34>' 56' 6> 523)'3'56'4; >:231'4%'6 '473' 2;;256)' 54'143@ 15'6 8 A%';9'56'16 A@ 6'> A '4%'56'4A@' 62> 2 12A' D B > 55 43' -+' !*% (/⁄ '3'345'%>48' ;B' 2<'43' C4@)' , ,'//.'23@%>48'&B' 4> A 9'43' 5':'/N 3&.3' %' ' 3 ,*6A' >'%2 35'23@' 8 B >% 15'> B> 352D 543'9'4%'56 3?'54'148 I' 3@ >'56'#4 B A.'5625')'4%' 6> 523' @ 5 ' 9';5'56';4@9' '4%' 6> 5.I'5625')'56' ; 5231)'4>' > 2A'@ 5 '23@':>5 ' 62@47 @';9'56'A ?2A'>5)'2>'564 ' 76 16'2>'3 55 5 @'23@'> G >@';9'56'#4 B A' %+' ((+ / ' T'<⁄ ''*($0 %/'3$ &(&/' 0,'6*% 3&--&0)'& ' 0) (BN' ' 56'345'%>48' 2><6>5'43':>'L' 625')';9' @ 1 3?'94 '54' 74> 6 B'23? A)'2'2'B 1'4%':4A 352>9' 6 8 A 59'211 B52;A'54' #4@' %+' ((⁄ > 5 3@ 3?'B>4;2;A9)'5625'5'72'[B> 8B5 4 ' 54'?4'54'#4@' 8 8 @25 43'4%'564 ' C1 AD A 35'1> 25 > ' $%8& ⁄ >'5625'564 ' B>5)'764'7>' 8BA49 @' ;9'#4@' 3'56'8 3 5>9'4%'56'#4 B A)'4 ?65' 3'?>25 5 @ '%4>'5625' >:1)'23@'4@5'4%' B 15'54'56 >'@ ?3 59)'54' ;'74> 6 BB @' 5' 2 A'143@ 83'2AA'56)'7564 5'239'> >: '82@'%4>'A47 >' @ ?> '4%'74> 6 BK' 6'162>? '56' 6> 523'54' ; 72>'4%'5625' \':2 3'B6 A4 4B69)I':>'L)'23@'345'54' ;'@ 1 : @';9'564 ' 6 7' 4%'H'6 8 A59)I'4>'56' B 1 A25 43'4%' 8 3)'764'B> 5 3@ @'54' CD BA2 3'7625'56 9'@ @'345'<347)'2'9' 35> @ 3?' 354'56 3?'76 16' 56?>'62@'345' 3)':2 3A9'B %% @' B' ;9'56 >'%A 6A9'8 3@ I' %' 239'@ ?> '4%' 3:4125 3?' 2 35'4>'23? A'62@' ; 3'143 5 35

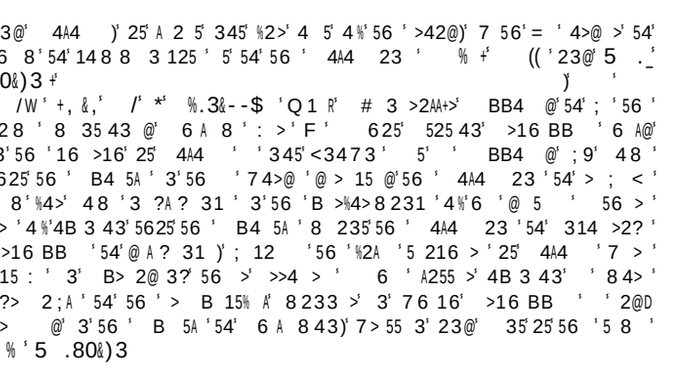


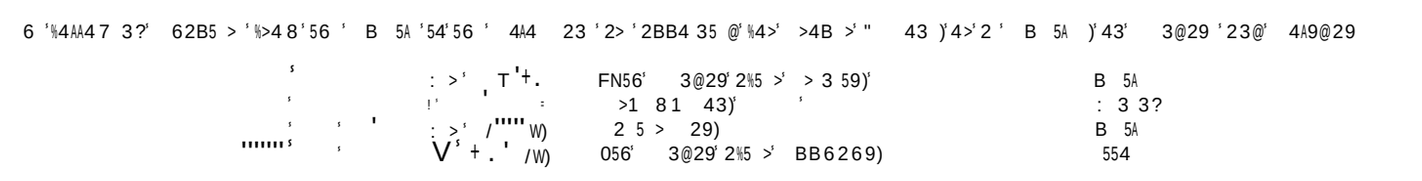












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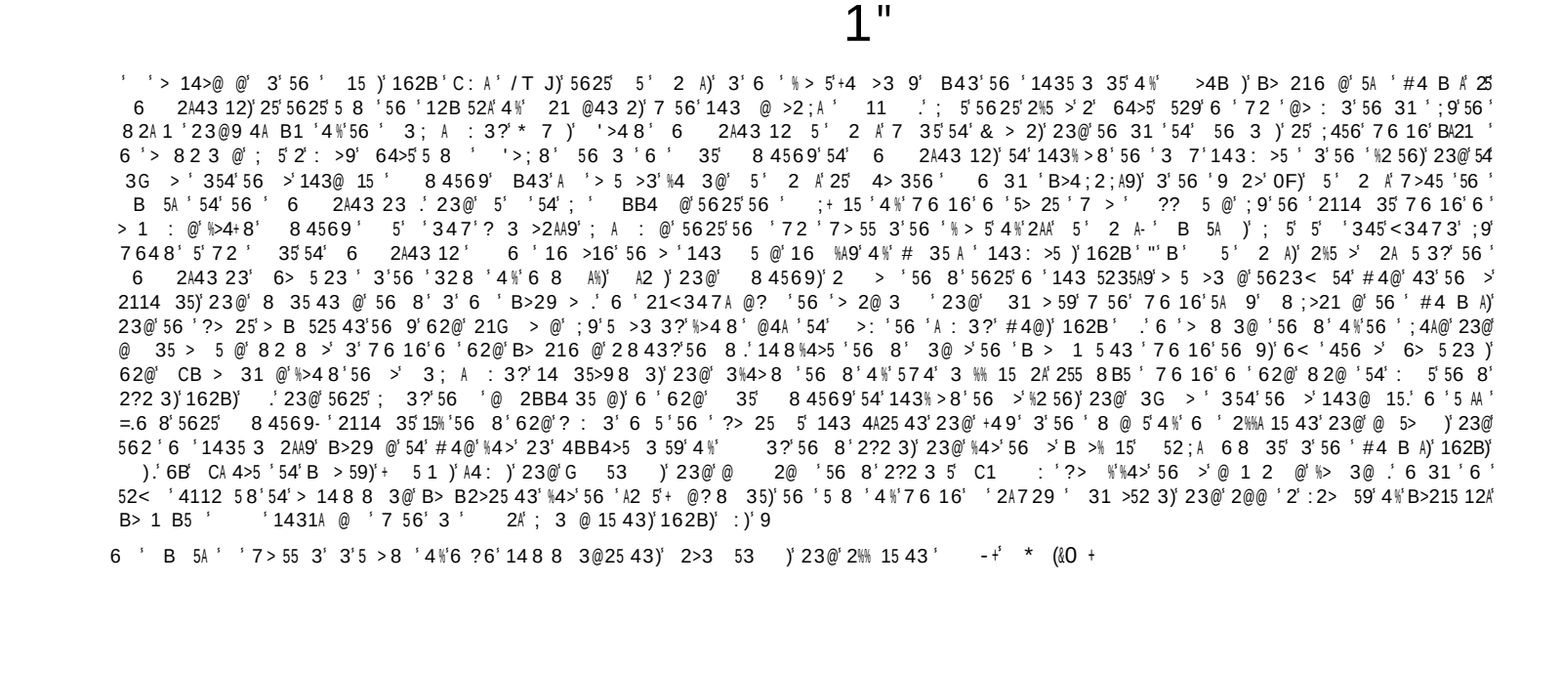

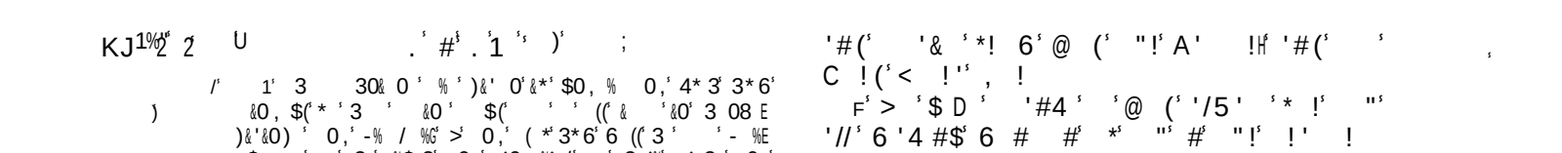

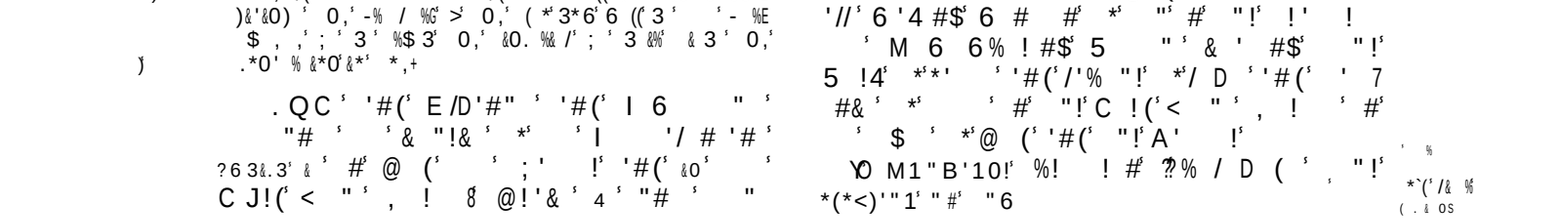

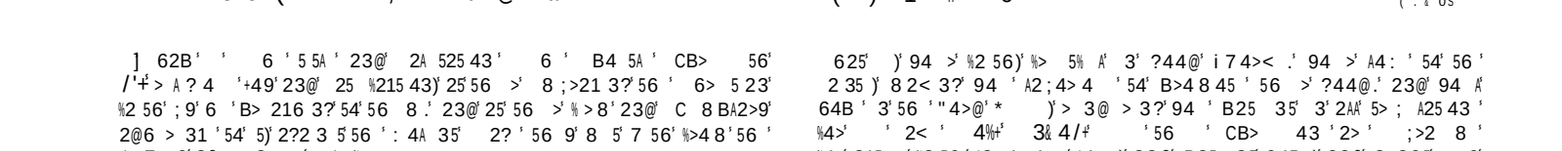

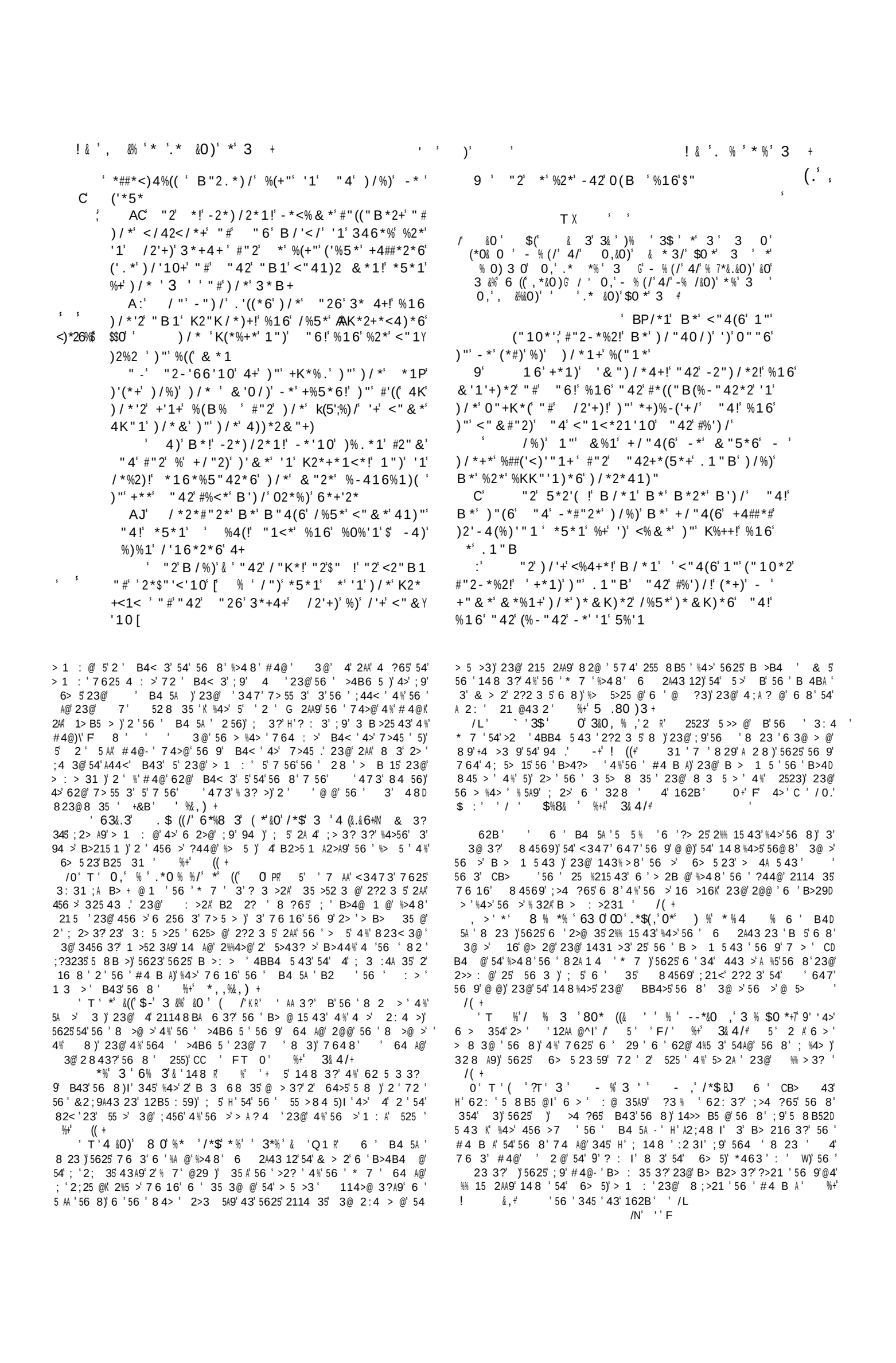

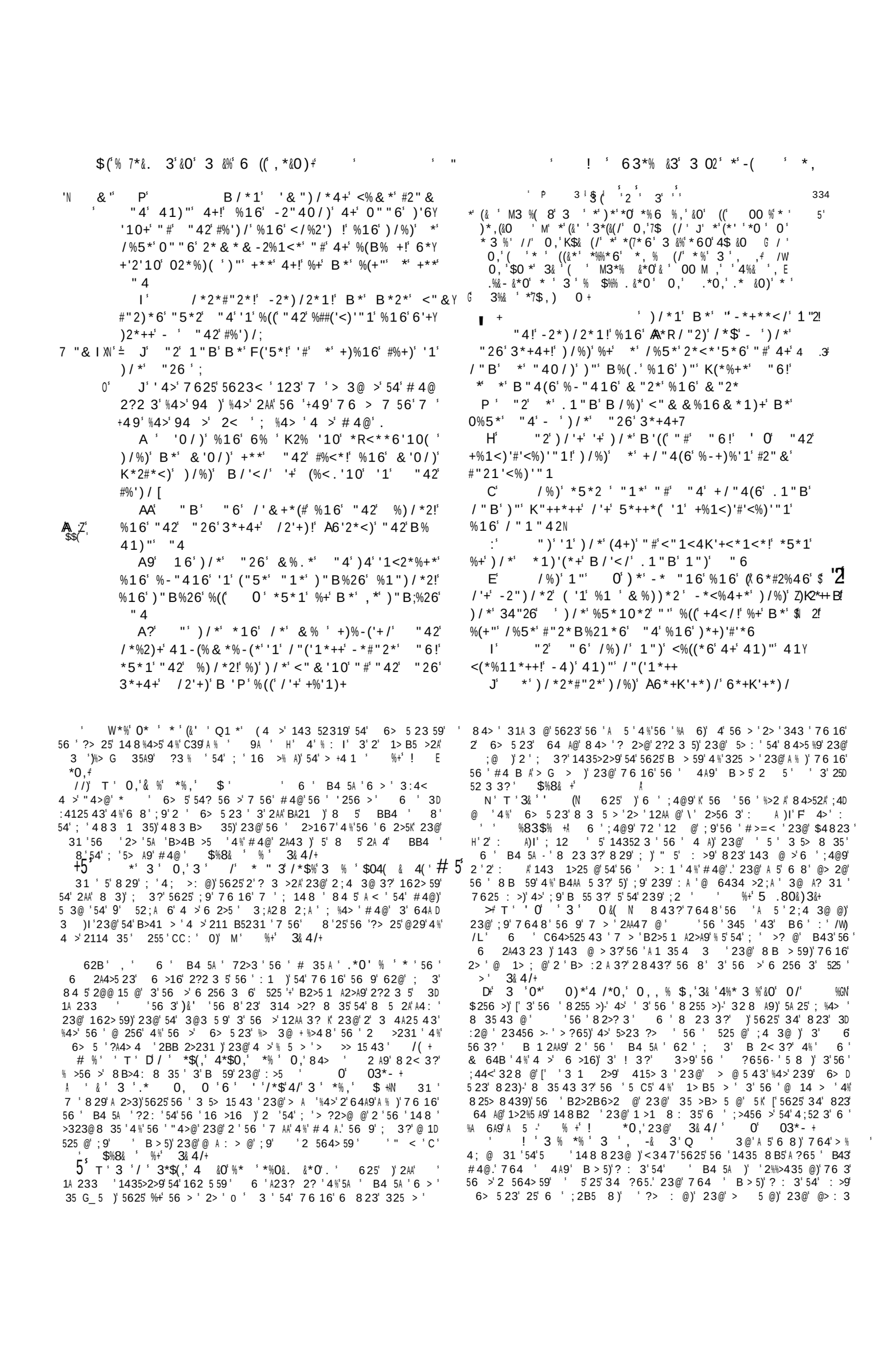

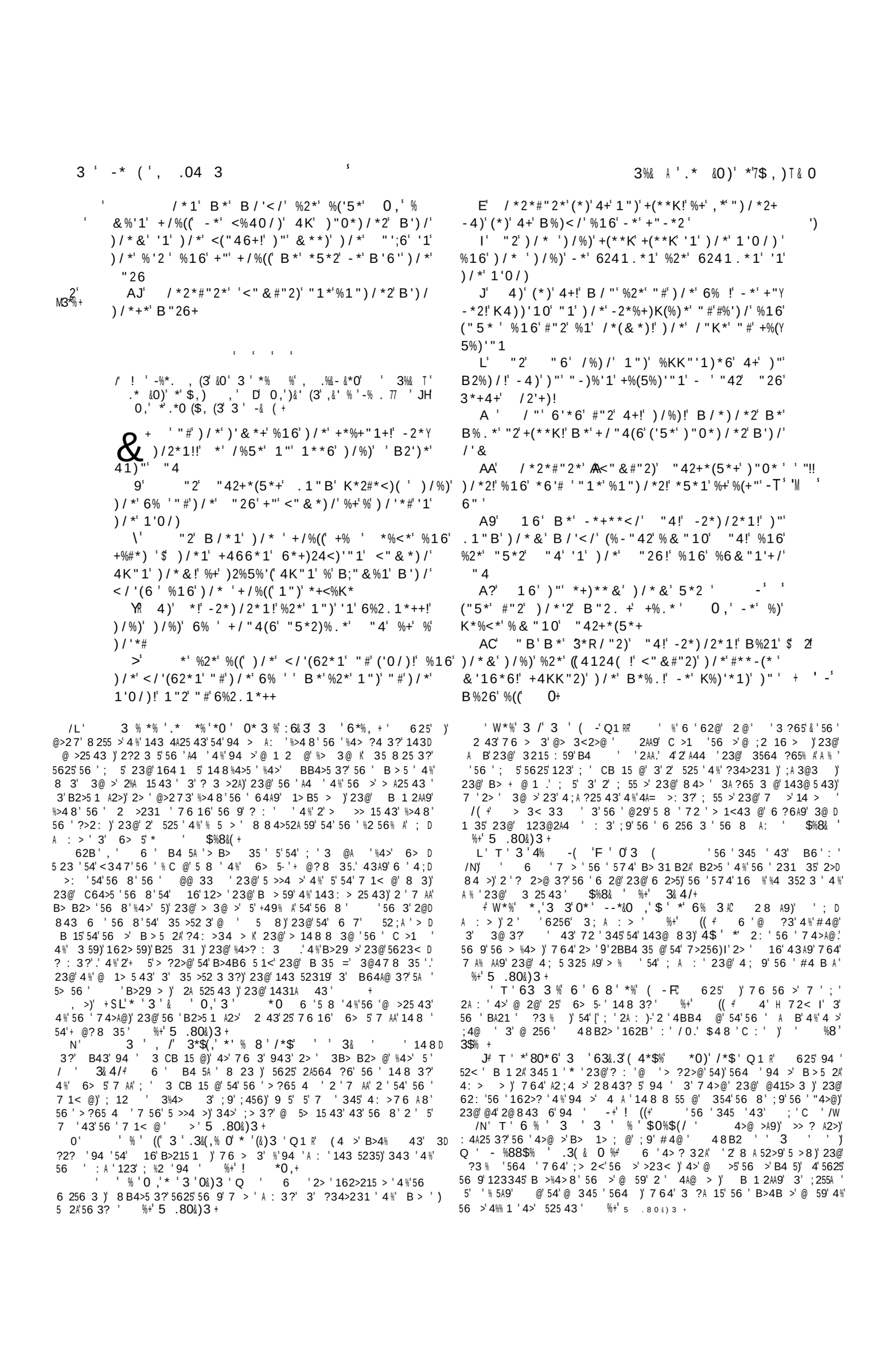

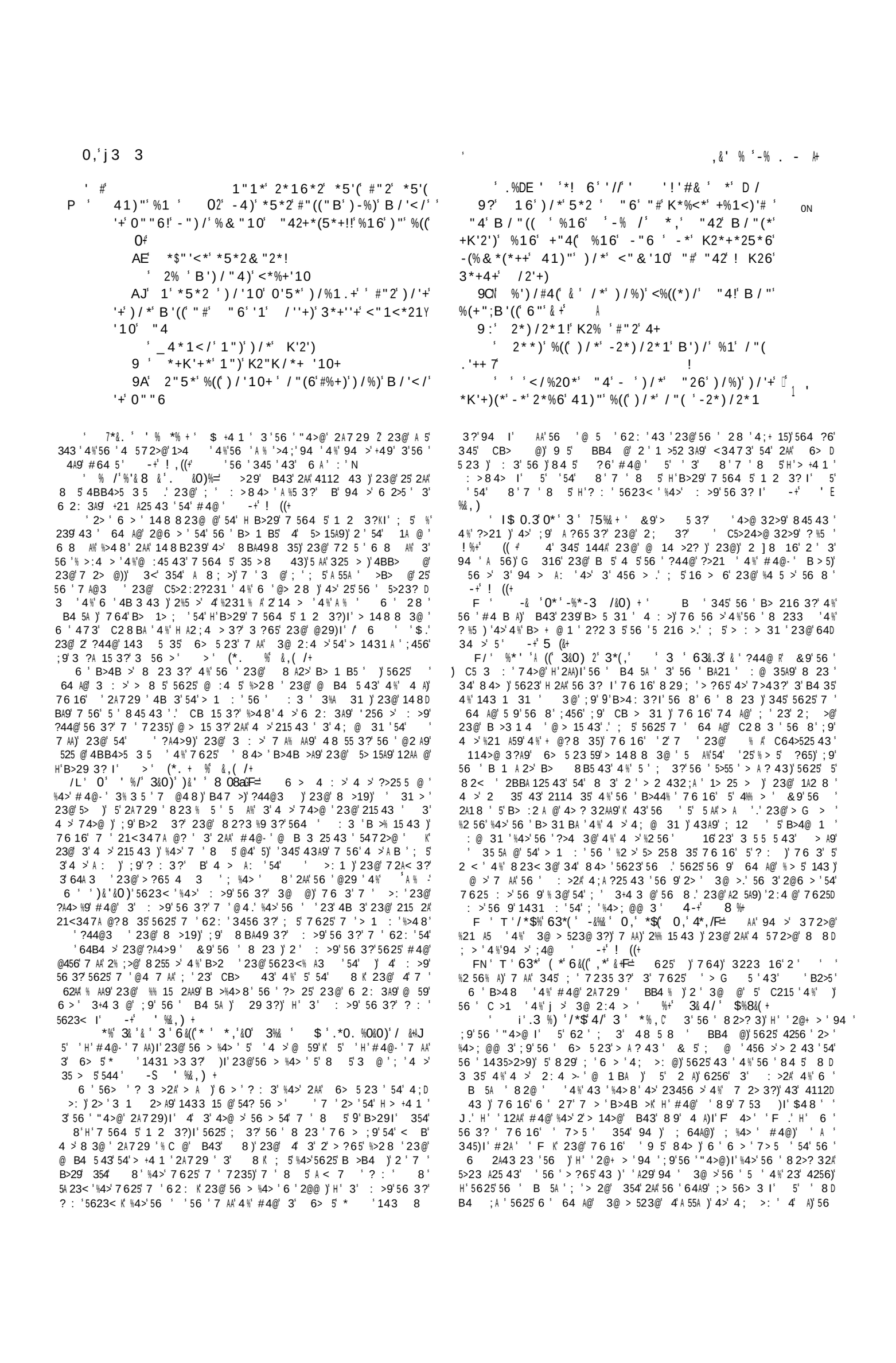

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AE' "B' "42' "26' 3*+4+' /2'+)' /'&+*(#!'
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' ! '.% ' 3' 3 &%'-% / % ' *%'3& (' H' & 3' 63 '
.*0&, 0.' 3' 3 3'&0' 3 ' >' 8 (3'% K$ ' *' *,'&0'
3 &%' 4 3 (' M')&' 3' 3 ' ,&' % '-% . - ' - .& ((/'
' 3$0'&,(0 ' 0,'&((' . - 0/' #']&,' (' * ' ((
.*0.($, 3' 6& 3'-% / %' 0,' ($ &*0+

5 >3 '54' 5' 2?2 3)' 23@' @ 1> ; '56 '456 >' G 2A % 125 43 ')' ; 9' 7 6 16'
56 ' 7 1< @' 43 ' 64 A@' 2@:231 ' 23@' \ 52;A 6' 6 8 A%' 3' 56 '
7 4>A@' 64 A@'> '54' 1> @ 5' 23@' 2 564> 59' ; 9' 56 ' 8 4 5' @ 2D
;4A 12A' 8 564@)' 64 A@' B> 5 3@' 54' B >325 >2A' B4 7 >)' 23@' ;42 5
4%'> : A25 43)' : 43)' 23@' 8 >21A)' %2A ' 3' 56 8 A:)' 23@' 2BD
BA @' 54' B>4 8 45 ' %2A ' @415> 3 K' H' 764 '148 3?' ' 2%5 >' 56 '
74>< 3?' 4%' 2523)' 7 56' 2AA' B4 7 >)' 23@' ?3)' 23@' A9 3?' 743@ > I'
' 64 A@' A < 7 ' B>215 ' 2AA' 456 >)7 1< @' 2>5 ' 4%' @ 1 5.' 64 A@'
; '? A59' 4%' 56 ' 8 4 5' 8 B 4 ' %>2 @' 23@' 8 B4 5 43 ' B43' 8 23D
< 3@'.' ; 5' 64 A@' B> :2 A' 43A9' 2 8 43?' 564)' 764' 2> ' @ 5 5 5 ' 4%'
2' 31 > ' 2%% 15 43' %;>' 56 ' 5> 56)' 7 6 > ; 9' 56 9' 8 ?65' 4;52 3' 5 >D
32A' 2A:25 43)' : >' / ' 5' @4 ' 345' > G > ' 239' B2>5 1 A2>' B>44%)'
%4>' 5' ' 544' ? 3 >2AA9' <3473)' 5625' 56 ' B> 5 3 43 ' 4%' 56 ' B4B '
23@' 56 ' 14>> B5 43 ' 4%' 56 ' 16 >16' 4%' $4 8 ' 2> ' 2AA' BB4>5 @' 23@'
2 564> U @' ; 9' % ?3 @' : 43 ' 23@' 8 >21A)' ; 9' %>2 @' 23@' 8 B4 D
5 > ' 4%' : >9' < 3@' & AA2>8 3' > 1<43 ' 56 ' ?A4>9' 4%' 8 >21A ' 2 '
56 ' A : 356' 345 ' 4%' 56 ' 12564A 1<' 16 >16)' ; 5' 56 ' B4 5A ' 2 ?3 '
A9 3?' 8 >21A ' 2 '2'@ 5 3? 6 3?' 8 2><' 23@' 162>215 >' 4 %' 56 ' 8 23'
4%' 3 -' 3@' 1 >52 3A9' 56 9' 123' 62>@A9' H' > 1 : ' 56 ' A4: ' 4%' 56 '
5> 56)I' ; 5' 8 5' 62: ' H' BA 2 >' 3' 3> ?65 4 3)I' 764' 123' ; D
A : ' 16' %2; A4 A ' 23@' > @ 1 A4 ' A ? 3@)' 764' 64A@' 5' 2' 8 4 >52A'
3' ; 5' 54' @4 ; 5' 4%' 239' 2>5 1A ' 4%' 56 >' > A ? 43)' 764' @ 39' 56 '
%> ' C >1 ' 4%' B> :25 ' + @? 8 35)' 764' 52< ' 27 29' 56 ' %> ' ' 4%'
56 ' 64A9' 1> B5 >)' 23@' 4' 9' 6 5' B' 56 ' < 3?@4 8' 4%' 6 2: 3'
2?2 3 5' 8 3)' 3 56 >' ?4 3?' 3' 56 8 A:)' 3 56 >' %% > 3?' 56 8'
5625' 2> ' 35 > 3?' 54' ?4' 3 I' -' 6 *0+
' 0,' *%' 3& '. $ ' *,' 3 ((' 0,' 3 ' %*0)' , ($ &*0 '
3@' %4>' 56 ' 7 A% A' > % 2A' 4%' #4@-' 5> 56)' 5' 62AA' ; '+ 5' 7 56'
8 '54' ? : '56 8' 4: >' 354' 5>43?' @ A 43 ' -G ! ((+' 9' #4@'
62AA' 3@' 5>43?' @ A 43)I' 2 ' ' 35' 2' A9 3?' B > 5' 354' 56 '
84 56-' 4%' 62; -' B>4B6 5)' / ! 3? ' CC ' FF)' F)' ; 9' B >8 55 3?'
56 ' : A' B > 5' 54' ?4' %4>56' %4>' 5625' 3@.' 4>' 2 ' ' 2@' 54' 9' @ D
1 : ' ' B 4BA)I' * >' : ' /)' ; 12 ' ' %% > @' 56 8' 54' ; '
@ 1 : @' ; 9' %2A ' B54B6 5 .' 23@' 2 ' ' @ 1 : @' 56 ' %2A ' B>4D
B6 5)' ; 9' ? : 3?' 56 8' B' 354' 2' B > 5' 4%' @ A 43)' U < ' C : ' J'
6 ' 8 5' ; '56 '5> ' 35 >B> 525 43' 4%' 2AA' 16' B2 2? ' 2 '56 '
!%+' 3& 4/# '56 ' 345 ' 43' 56 ' B2 2? ' 6 > '> % >> @' 54
6 '59>233 12A' B4 7 >)' @ 1> ; @' ; 9' 23 A' 3' 56 ' 162B5 > ' 2AD
> 2@9' G 45 @)' 23@' ; 9' 5' 2 A' 3156 ' B2 2?)' 23@' 2%5 >72>@ ' ; 9'
5' *463)' ' 856' ; 9' 231 35 ' Q @' 84@ >3 ' ? 3 >2AA9' @ 348 325 @'
H' 35 16> 5 I' 6 ' '256 > ' B 2<' 4%' H' 35 16> 5I' 23@' 4%' =56 '
823' 4%' 3-' 2 ' 43 ' 23@' 56 ' 28 ' B > 43.' 23@' ? : ' 8 16' 56 ' 28 '
35 >B> 525 43' 5625' 6256' ; 3' 6 > ' ? : 3' 4%' 56 ' 764A ' B2 2? .'
43A9' 5' ' 345' 54' ; ' BB4 @)' 5625' 56 9)' 764' 7 >45 ' ; %4> ' 56 '
: 35)' 14 A@' ; ' 4' : >9' C215' 3' 56 ' 2BBA 125 43' 4%' 216' B2 >5 1 D
A2>)' 2 ' 564 ' 764' 62: ' 56 ' 2@:2352? ' 4%' 7 > 5 3?' 2%5 >' 56 ' : 35)'
23@' 4%' 14 8 B2> 3?' 56 ' B>4B6 19' 23@' 14 8 BA 5 43' 54? 56 > ' 6 3'
56 ' B2B2A' @415> 3 ' 23@' 56 ' B2B2A' 2 564> 59' B> :2 A @' 4: >' 2AA)' 5'
72 ' 325 2A' 54' 56 3<' 23@' CB 15' 5625' 56 ' 5> ' 345 43' 4%' 35 16> 5'
74 A@' ; ' 5 %A @)' 23@' 5625' 56 ' @4154> ' 4%' 56 ' 16 >16' 74 A@' 3

@ 2:4 >' 54' ? : ' 23456 >' 5 >3' 23@' 35 >B> 525 43' 54' 56 ' B2 2? '
& 5' 34' 443 >' @ @' 56 ' > %4>8 25 43' @27 3)' 5623' 56 ' 345 43)' 7 6 16'
62@' ; 3' A43?' BB> @)' ;>@ 1 ' 4 5' 2?2 3 ' 2>A9' 2 ' 56 ' 9 2>'
//F ' 2' 5> 25 ' 72 ' B ;A 6 @)' @ 35 %9 3?' 35 16> 5)' 56 ' 764> '
4%'&2;9A43)' 56 ' %4 >56' ; 2 5' 4%' 23 A' 3' 5 ' A2 5' 525)' 23@' 5625'
823' 4%' 3)' 56 ' 43' 4%' B >@ 5 43 ' 6 ' 2A@ 3 ' 23@' A6 '
? 3 ' B>4B2?25 @' 56 ' 28 ' 4B 3 43 ' 3' 56 ' 28 ' 1 35 >9 ' 625'
56 ' 4B ' 72 ' 35 16> 5' 72 ' 3@ @' 56 ' ? 3 >2A' @415> 3 ' 4%' 56 '
> %4>8 > ' : >9' 76 > ' > ' 3' 3?A23@' 5' 72 ' 2@:231 @' ; 9'
1<A %%.' 23@' 7n ' A 2>3 @A9' 52;A 6 @' ; 9' 5625' ?> 25' 23@' 2;A '
1628 B 43' 4%' 56 ' > %4>8 25 43 ' & 64B' * 7 A)' 3' 6 ' B4A4?9' 23@'
% 31)' 23@' 8 4> ' A2>? A9' 3' 6 ' CB4 5 43' B43' 56 ' 574' B D
5A ' 4%' 5' 2 A' 54' 56 ' 6 2A43 23 ' 5' 1435> ; 5 @' 345' 2' A 55A '
54' B>4 8 45 ' 56 ' > %4>8 25 43.' 23@' 76 > 4 : >' 56 ' 43 ' B> :2 A @)'
56 ' 456 >' B> :2 A @' 2A 4' 6 ' B>4B6 19' 4%' [' 56 ' 823' 4%' 3-'
56 ' 35 >B> 5 @' ' 35 > A9' 143 5 35' 7 56' 5 A%.' 5' 14 31 @ ' B >D
% 15A9' 7 56' 23 A.' 5' '2?> 2;A '54' 56 ' 5>2@ 5 43' 4%' 56 ' B> 8 D
5 : '16 >16'.' 23@' 5' 6256' ; 3' C215A9' % A% AA @' 3' 2AA' B2>5 1 A2> '
6 ' ' 5' 25' 431 ' 23' AA 5> 4 ' B>44%' 4%' : 3 ' > : A25 43)' 23@'
23' C1 AA 35' 235 @45 ' 54' 56 ' B4 43' 4%' B4B >9 ' -+' 6 *0+
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7 6 16' 56 ' B4 5A '23@' 456 >' 3 B > @' 5 216 > ' @ A : > @' 54' 56 '
74>A@' 2 ' > : A25 43 ' %>4 8 ' #4@ ' 4' @415> 3 ' 8 > 5' 56 ' 328 '4%'
9' 5>2@ 5 43 I' 3' 56 ' 1> B5 > ' 3 '4%' 56 ' 74>@)' ; 5' 16' 2 ' 7 > '
52 ?65' ; 9' 56 ' B4 5A '4%' 6> 5)' 4>' ; 9' 456 >' B > 5 2A' 8 3)' 764'
> 1 : @' 5A 8' ; 9' 8 8 @ 25 ' > : A25 43' %>4 8 ' 8 ' 3@' 564 ?6'
56 ' 3 B > @' 5 216 >)' 54' 7 64 8' 56 ' @415> 3 ' 7 > ' > : 2A @)'
4 8 8 3 125 @' 56 8' 54' 56 ' 7 4>A@' % > 5' 4%' 2AA' ; 9' 7 4>@' 4%' 84 56)'
56 9' 123345' 347' ; ' <3473' 54' ; ' 56 >)' ; 5' ; 9' 56 >' 64A@ 3?' 2
BA21 ' 3' 564 ' 7 > 5 3?)' 7 6 16' 2> ' 2AA47 @' 54' ; '56 ' ? 3 3 ' B>4D
@ 15 43 ' 4%' 56 ' 3 B > @' 5 216 > ' 6 ' 5>2@ 5 43 ' 56 > %4>)' 43'
7 6 16' 56 ' 16 >16' 4%' $4 8 ' A29 ' 4' ?> 25' 2' 5>)' 2> ' 4%' %54' 823D
3 >' 4%' :2A ' ! %+' 5 .80&)3 G
)' ' *6' *$%' *%,' $' 3%& ' 3& (' T ' * *%' /*$%
3 % ' Q1 R' 625')' B>29' 56 ' "4>@' * ' 6> 5' 54' @4' 4' 6'
56 ' 28 ' 8233 >)' B 2< 3?' 4%' 6 ' 564>3' 3' 56 ' %A 6)' 6 ' 29)' H' '
; 4 ?65' 56 ' "4>@)' Q1 I' 328 A9)' 6> 5' 5' 2 A-' 2A' %4>8'
4%' ; 3 @ 15 43' 72 ' ; 9' 3:4125 43' 4%' 56 ' 328 ' 4%' 6> 5.' H' #>21 '
; '54' 94)' 23@' B 21)' %>4 8' # 4@' 56 ' '256 >)' 23@' %>4 8' 4 >' "4>@'
* ' 6> 5 I' 48 5 8 '56 ' 328 ' 4%' 6> 5' 523@' 3' 56 ' %>5
4>@ >)' 2 ' 3' 56 ' B2 2? ' ; %4> ')' 23@' 3' F' 4>' C ' /N)' H 6 '
?>21 ' 4%' 56 ' "4>@' * ' 6> 5)' Q1 I' -+' ! *%0 +' ' 4>' H' 148D
%4>5 3?' 56 ' 6 2>5I' 3456 3?' 123' @4' ; 5' # 4@K' 23@' 56 > %4> ' 7 '
4 ?65' 345' 54' B>29' 54' 239' ; 5' # 4@' 54' QQ' 148 %4>5' 4 >' 6 2>5 4 >'
"4>@' * ' 6> 5' 56 > %4> ' ' # 4@' ' (& +
': 62B' ' 5' 2 A' @ > ' 56 ' 6 2A43 23 ' 54' >29' %4>' 6 '
@ A : >231 ' %>4 8' 56 ' 8 2A 1 ' 4%' 56 ' * 7)' 2 ' 6 ' 62@' B>29 @' %4>'
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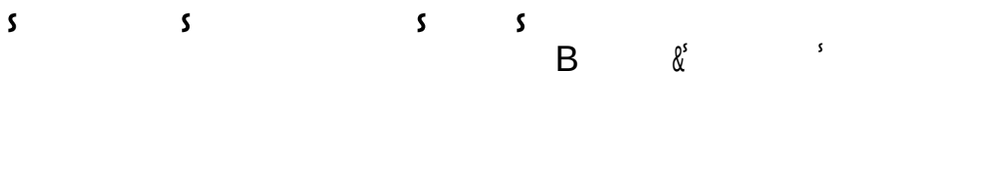

% AA' B>44%' 4%' 6 ' 8 3 5>9I' F 8 ' ' /0'.' : =)' 0 ' 48 ' 4%' 56 ' 28 '56 3? ' 2> ' 162>? @' B43' 5)' 7648 ' 5' 2 A' 62@ A %5' 3' > 5)' 54' 9' 5' 3' 4>@ >' 5A '56 3? '5625' 2> ' 7235 3?)' 23@' 4>@2 3' A@ > ' 3' : >9' 1 59=I' 5 ' '0)' J)' / ' : >2A' 4%' 56 ' 162>215 > ' ;9' 7 6 16' 6 ' 72 ' 54' 5>9' 56 8' 2> ' 2A 4' 5' @473 ' ' 162>? @' 54' H' > ; < ' ?2 3 29 > ' 62>BA9)I' 23@' '9' B 2<' 56 '56 3? '5625' ; 128 ' 4 3@' @415> 3 I' ' ' 3 5> 15 @' 1431 >3 3?' 56 ' @415> 3)' 7 6 16' 6 ' 72 ' 54' 5 216)I' 23@' 564 ' 7 6 16' 6 ' 72 ' 54' H' 2 : 4 @2 3 @' 2A 4' 647 ' 54' 1 3 > ' 23' 6 > 5 1<K 6 ' 72 ' 54' H' 2@8 43 6' 6 8 ' 57 1)I' 23@' %' 5625' @ @' 345' B> : 2 A)' 6 ' 7.2 ' 54' 9' > + 15' 6 8)I' ; 9' 48 ' B ; A 1<' 1 3 >)' 162B ' / ' 6 '> A)' ? : 3' 54' 8 4569' 23@' 5)' BA2 3A9' 8 B4>5)' 5625' 56 > ' 72 ' 54' ; ' 23' 2 564> 59' 3' 56 ' 16 >16)' 23@' 5625' 34' 8 23' 7 2 5 ' 2 8 '56 ' 2 564> 59' 54' 6 8 A%K' 2114>@ 3?' 54' 5625' 8 2C 8)' 7 6 16' 8 ' 54' ; ' %4 3@ @' 43' 56 ' A ?65' 4%' 325 >)' 2 ' 7 AA' 2 ' 5' ' 5' @473' 3' 1> B5 >)' %4>' 2' 523@ 3?' > A ' 2?> @' 54' 3' 2AA' 5 8 '23@' BA21)' H' 4 8 23' 52< 56' 56 ' 6434 >' 354' 6 8 A%)' ; 5' 6 '5625' '12AA @' 4%' # 4@)' 2 ' 72 ' 2>43)I' ; ' : ' ' -+' $%0 +'

625 8 4569' 7 2 ' 2' ; 64B)' 23@' ; 64B' 4%' B6)' 56 ' 8 5>4B4A ' 4>-16 %' 1 59' 4%' 2)' ' % AA9' 255 5 @' ; 9' 2AA' 235 G 59.' 56 > ' 2> ' ; D @ ' : >9' BA2 3' : @ 31 ' 4%' 56 ' B 14B==47 >' 23@' 2 564> 59)' 7 6 > 7 56' 6 ' 7 2) 3 : 5 @)' 3' 56 ' : >9' B 5A ' M%' 5' 2 A' 7> 55 3' 54' 6 8 ' 16' '5625' 3' 56 ' % > 5' 162B5 >)' : > ')' H ' ' ; 4 ?65' 56 '54' 2 ; @ ' 5 AA' 25' B6)T 5625' 564 ' 8 ?65 5' 162>? ' 48 '5625' '56 9' 5 216' 34' 456 >' @415> 3 I' ' 62@' 56 > %4> ' 2' B47 >' 3 : 5 @' 3' 6 8 ' 4%' 12AA 3?' 54' 2114 35' 56 ' B> ; 95 > ' 23@' 5 216 > ' 7 56 3' 56 ' @ 41 ' 4%' B6)' 1431 >3 3?' 56 >' B> 216 3?' 23@' @415> 3)' 7 6 16' ' 1 >52 3A9' 2' ; >2316' 4%' B 14B2A' B47 >' ' > 2@' 2A 4' 3' 5A ' 28 ' B 5A)' 5625' 6 ' 72 ' 2BB4 35 @' 2 ' 2' + @? ' 4%' 56 ' B> ; 95 > ' 4%' B6)' 54' 6 2>' 23@' @ 5 >8 3 ' 564 ' 12 ' 5625' 1431 >3 @' 56 8)' 162B' ' ' ' 62@' 2A 4' 56 ' B47 >' 4%' 4>@ 325 43)' 7 6 16' ; 3?' 2@@ @' 54' 56 ' %4>8 >' 82< ' B' 56 ' 148 BA 5 ' B 14B2A' B47 >' 23@' 2 564> 59K 56 ' 829' ; ' BA2 3A9' ?256 > @' %>48 ' 56 ' 12 543' ? : 3' 6 8' ; 9' 5' 2 A' 54' ' 5625' B47 >' 2> ?65.' H' " 29' 623@ ' @@ 3A9' 43' 34' 823)' Q1 \' 162B' : ' FF ' -+' $((+

11" ,

/' & * 3/' & '-$ ' &0' &0,' * ' 3 ' .3 %) ' 63&.3' 6 ')&' 0' ' 6& *' 3& ' 4/' $(' ' 3& ')*&0)' *' 5 . ,*0& + 0' ' 3 '%&)3 '$ ' 0,' 0,' * ' 3 '(6+ // ' &0 ' $(T . ((&0)' *' 4 ' 0' -* (' F ' 0,' '! / 0 $ ' 0,' ')' (M 0, %+

!' #)1' %K"+)(*' " #' 3*+4+' /2'+)' - ') / *' <" & & %16 & *1)' " #' " 6' " 42' %5' " 42!' %16' 3$"26' 3*+4+' /2'+)!' & *3&.3' & ' " 42' / "K*' 9' 1)"' '& ")/ !' /' "B1' +"1' '1') / *' #%') / ' 2%<*!' & *2< !' 0,' K*%<*!' #2" &' " 6' " 42' %) / *2' %16' 3*+4+' /2'+)' " 42' " 26 ?' +' ' -*+" 40 /)') / **')"' %-'6*' +)'((' %)' K / *+4+!' B / *1' A' B*1)' '1)"' %<*6 "1'%!') / %)

) / " 4' & '0 /) *+)' < / %20*' +" & *') / %)') / * ')*%</' 1"' ") / *2' 6"<)2'1*! MO

Y' *') / *2') &' ' 3 ,' *' 4(' %16' *16Y (*++' 0*1*%("0'*+!P' B / '</' & '1'+)*2' V4*+)'"1+!' 2%) / *2' # / %1' 0"6(' *6'# '10' B / '</' '+' '1' #%') / ' +"' , *+

>' " B') / *' *16' " #') / *' <" & & %16 & *1)' '+' Z</%2') ' "4)' " #' %' K42*' / *%2)!' %16' %' 0" "6' <"1+<'*1<*!' %16' ^PZ#%') / ' 41#*'01*6

E' 2" & ' B / '</' +" & *' ((/ %5'10' +B*25*6' / %5*')421*6' %+'6*' 41)"' 5%'1' $%10('10' $ 0*' & &0)' I' *+'2'10')"' - *')*%<* / *2+' " #') / *' (%B ' 416*2+)%16'10' 1*') / *2' B / %)') / * ' +% ! 1"2' B / *2*" #') / * ' %##'2&

62B' ' 3'56 '162B5 >' 56 ' B4 5A)' / 5)' 4>@ > ' 8 4569' 54' 6 3D @ >' 1 >52 3' * 7 6' @4154> ' %>48' 14>> B5 3?' 56 ' @415> 3 '4%' 6> 5)' ; 9' ; 5 A)' B>4%23)' 23@' C5>2 : 2?235' 345 43)' 23@' 35>4@ 1 3?' @ D B 5 ' 354' 56 '16 >16 ' 3@' ; 12 '56 ' @4154> ' 6 7 @' ?> 25' U 2A' %4>' 56 'A27)' 6 ' 3%4>8 '6 8)' F@A9)' 7625' '56 '5> ' '4%' 56 ' A27 ' @A9)' 6 '? : ' 6 8' 4112 43' 54' B 2<' 4%' 56 ' ?44@3 ' 4%' # 4@' 3' 12AA 3?' 6 8' 54' 5A ' 4%% 1 ' 4%' 23' B4 5A)' 23@)' ? 3 >2AA9)' 4%' 56 ' 8 >19' 4%' # 4@' 547 2>@ ' 33 > ' 3' 56 ' A2 5' BA21 ' 6 ' C64>5 ' 8 4569' 54' @ 162>? ' 56 ' @ 5 ' 4%' 6 '% 315 43' 7 56' 14 >2?)' 23@' 54' 4BB4 ' %2A ' 5 216 > ' %' (,+

, >' / ' T ' 4/' 3 ' ..0/ 00, 0= >' (' 2114>@ 3?' 54' 56 ' 2BD B4 358 35' 4%' # 4@' 4 >' 2: 4 >)-' 764' 12AA @' 8 ' 54' 56 ' 4%% 1 ' H' ; 9' ' ?>21)I' # 2A ' ' /0' 6 ' B 56 5' H' 2: 4 >I' ' 57 G ' 2BBA @' 54' # 4@' 56 ' ' 256 >' 3' 56 ' B 5A)' 328 A9)' 162B' ' H2' : ' / ' K 23@' 57 1 ' 3' 56 ' B 5A ' 54' 5)' 328 A9)' 162B' ' .' ' / ' > ' 3& 4/+

' 63&.3' & ' *$%' 3*- ' C' : 3')' 43' 7648 ' 2AA' 4 >' 5> 5) 23@' CB 1525 43)' 23@' 64B ' 4%' ?44@' ' %4 3@ @' 23@' ; A5 ' > ' ! *0,+

F' "0 *' & * 3/' /' *60' *0'&0' 3 ' & 3' A ' AE25')' 7648 ' % > 5' 143 : >5 @' 23@' 4' ; ?25' 54' 6> 5 23 59 ' > ' ! *0, ' /(+ 6 ' B6>2)' 148 B2> @' 7 56' /' 4> ' : ' /N)' /0)' 8 ' BA2 3A9' 54' 8 B4>5' 5625' 8 4569' 72 ' 143 : >5 @' 54' 56 ' 6> 5 23' %2 56' ; 9' 5' 2 A)' 2 ' 2A 4' 6 ' 8 ' 54' 35 8 25 ' 7 6 3' 6 ' 2 56)' 9' >: @' 7 56' 6 8' 3' 56 ' # 4 B A)' 2 ' 2' 43' 7 56' 56 ' %256 >)I ' 6 A ' ' FF .' 23@' 2?2 3' 12AA ' 6 8' H' 6 ' @ 2>A9' ; A4 : @' 43)\' F' 8 ' ' F ' 6 > ' 2BB 2>' 3456 3?' 3' 56 ' 1> B5 > ' 54' 56 ' 1435>2>9' 4%' 56 ' 4B 3 43 ' ' > ' 3& 4/+

' T ' 0*' * 3 %' , *. %%0 A ' 623' 7625' ' 2?> 2 ; A ' 54' 56 '5> 56' 4%' 56 ' # 4 B A ' > ' " + 625' 4 3@' @415> 3)' 7 6 16' 3' 2AA' 16 >16 ' 72 ' @ A : > @' ; 9' ' > ' ! *0,+

N' & 3 %')&' ' 3 ,' *' 4(' 0,' 0,(') 0 (*)& ' Q1 R' 4' @A ' * 7 6' %2 ; A .' 34>' 54' 564 ' 3% 3 5 ' B @ ?> ' 23@' ? 3 2A4? ' 7 6 16' 56 9' 523@' B43)' 3' @>27 3?' @473' 56 ' A 3 ' 4%' 56 >' @ 1 35 ' %>48 ' ; >2628' 4>' %>48 ' 2 : @)' 3' 2' B> 5 31 ' 4%' 1A2 8 3?' < 3@> @' 7 56' 6> 5' 2114>@ 3?' 54' 56 ' %A 6' .' 7 6 16' ; > @' 8 239' %> : 4A4 ' G 543 ' 23@' 1435 35 43)' >256 >' 5623' 5 3@' 54' 56 ' @ % 125 43' 4% 56 ' 16 >16' 3' 56 ' %2 56' 4%' 6> 5)' 7 6 16' 64 A@' ; ' 56 ' 3@' 23@' @> %5' 4%' 2AA' 4 >' A2 ; 4 > ' -+' ! ((+

6 ' H' %2 ; A I' 6 > ' 8 35 43 @' 2> ' 12AA @' 9' * 7 6' %2 ; A)I' 5 ' / N2' ; 12 ' 56 9' 7 > ' 3 : 35 @' ; 9' 56 ' * 7 6' @4154>)' 54' > D 148 8 3@' 56 ' 3 5 5 543 ' 4%' 4 ' >)' 5 .80&)3 +

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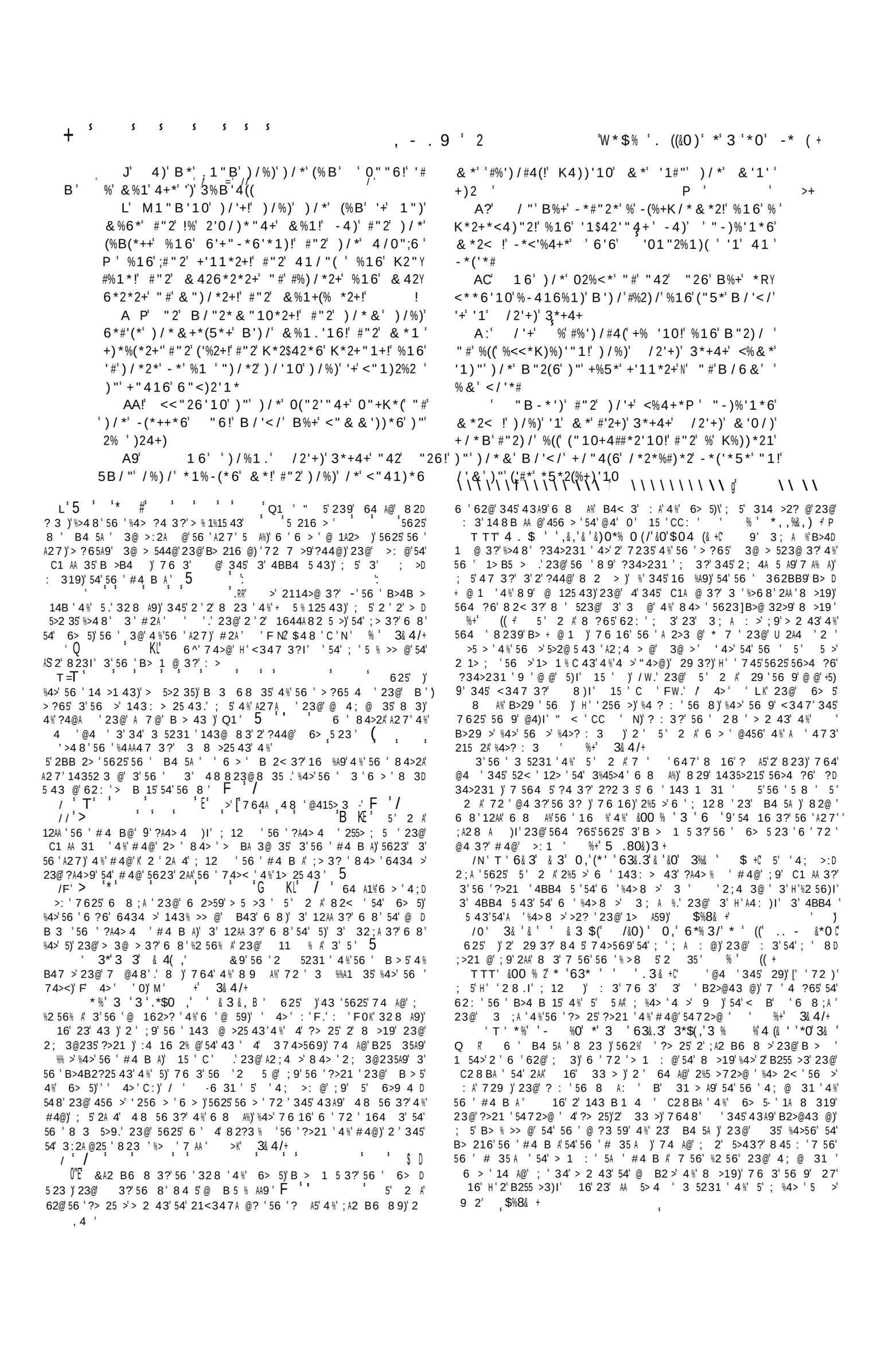

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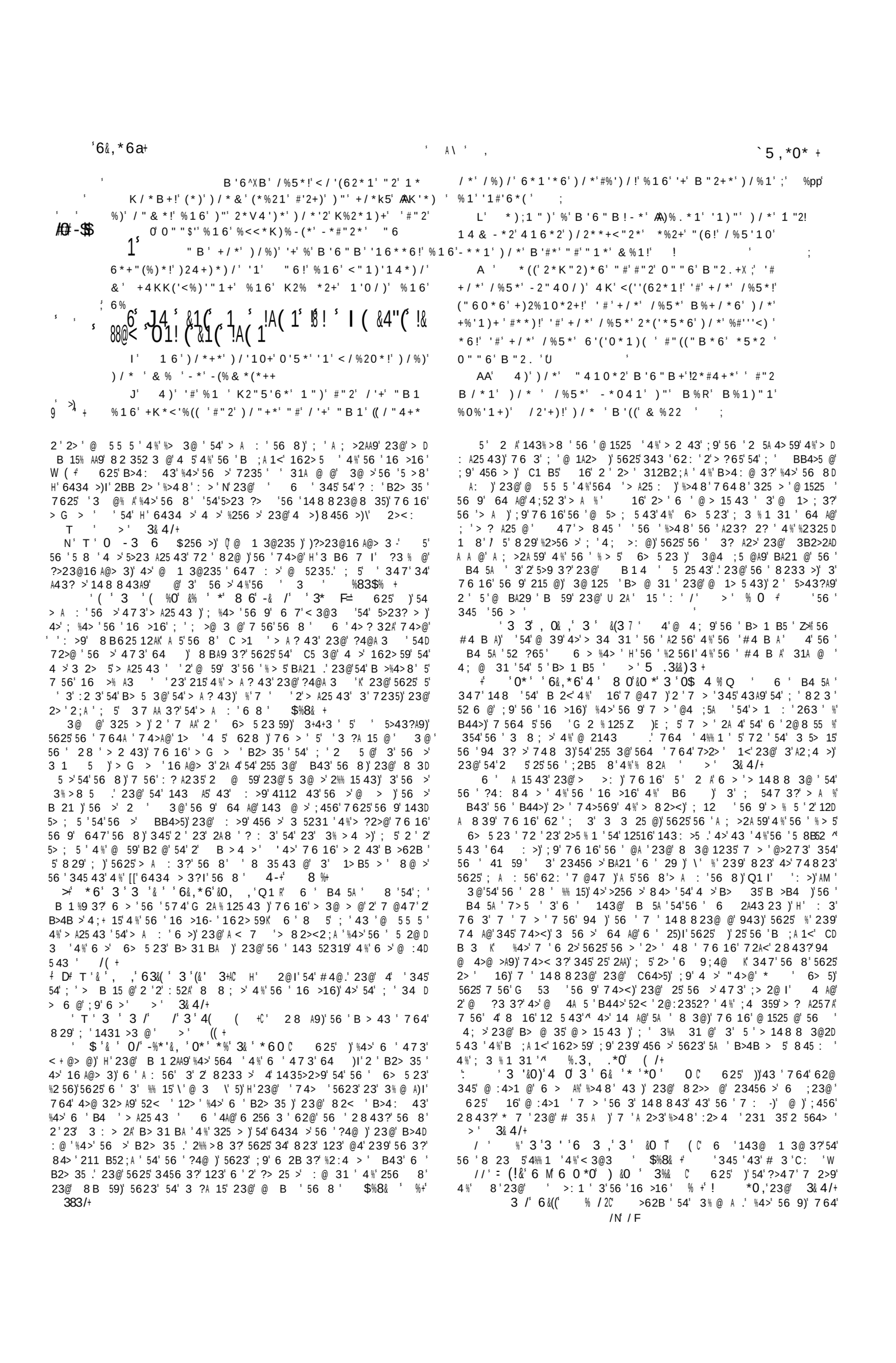

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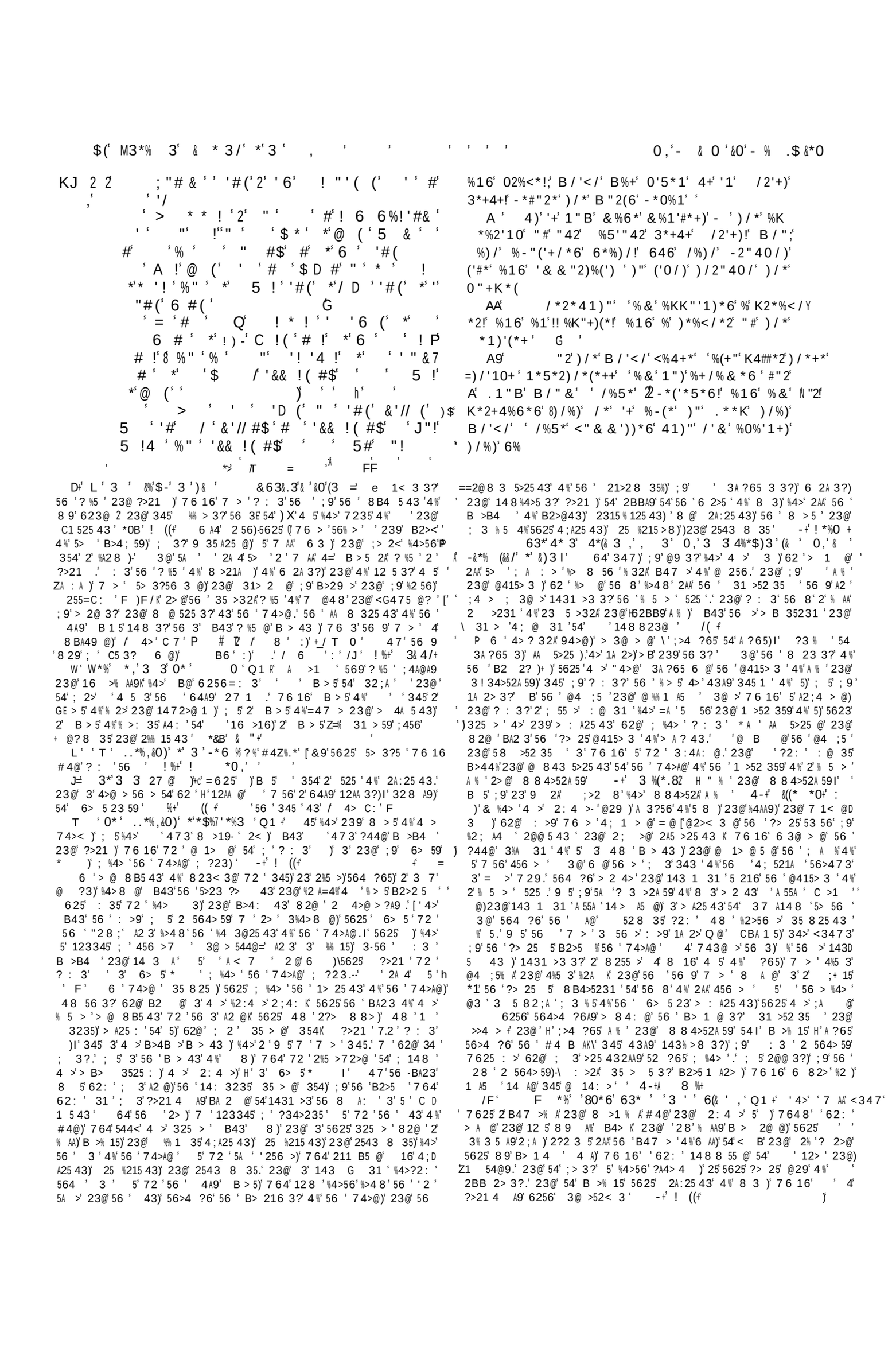

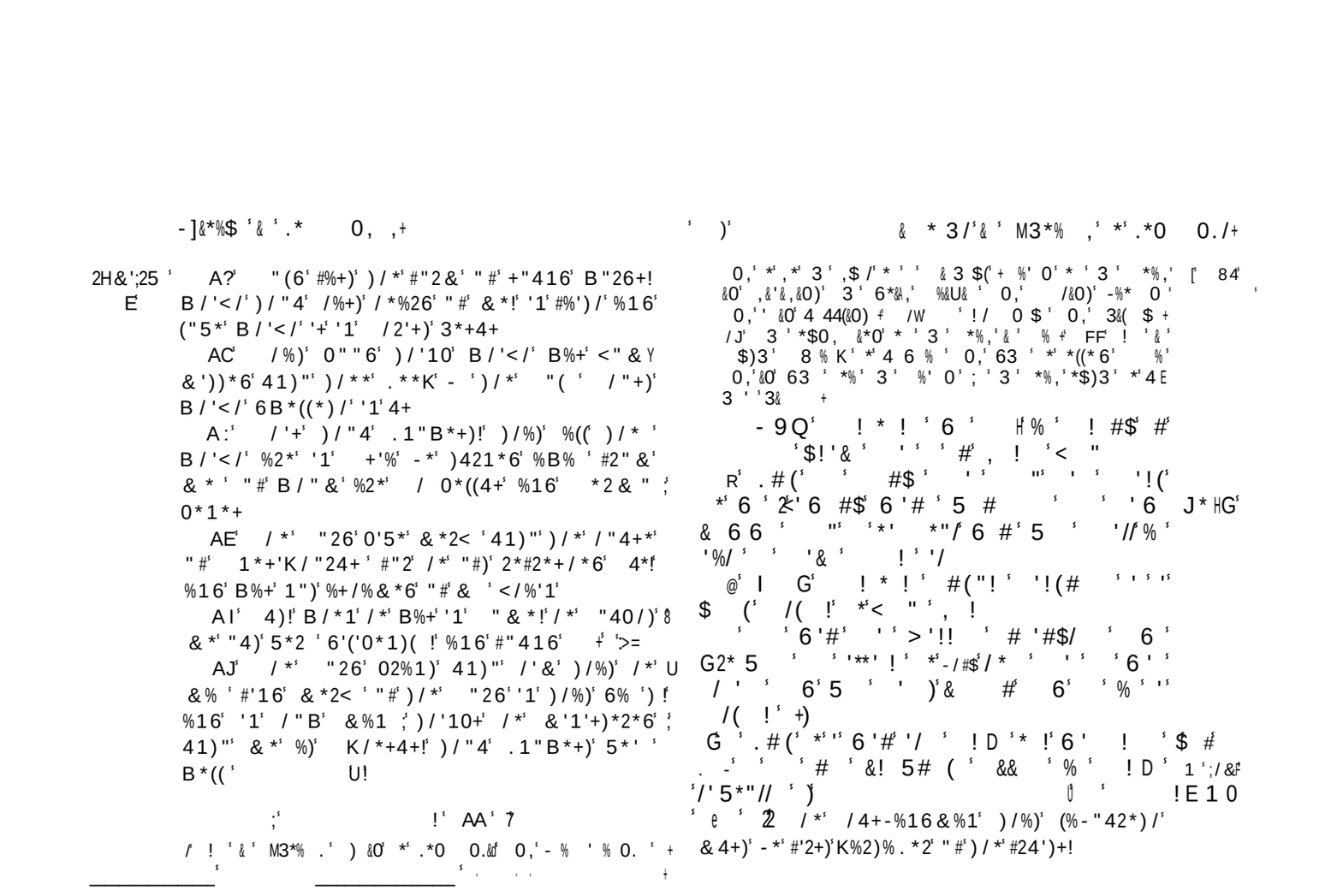

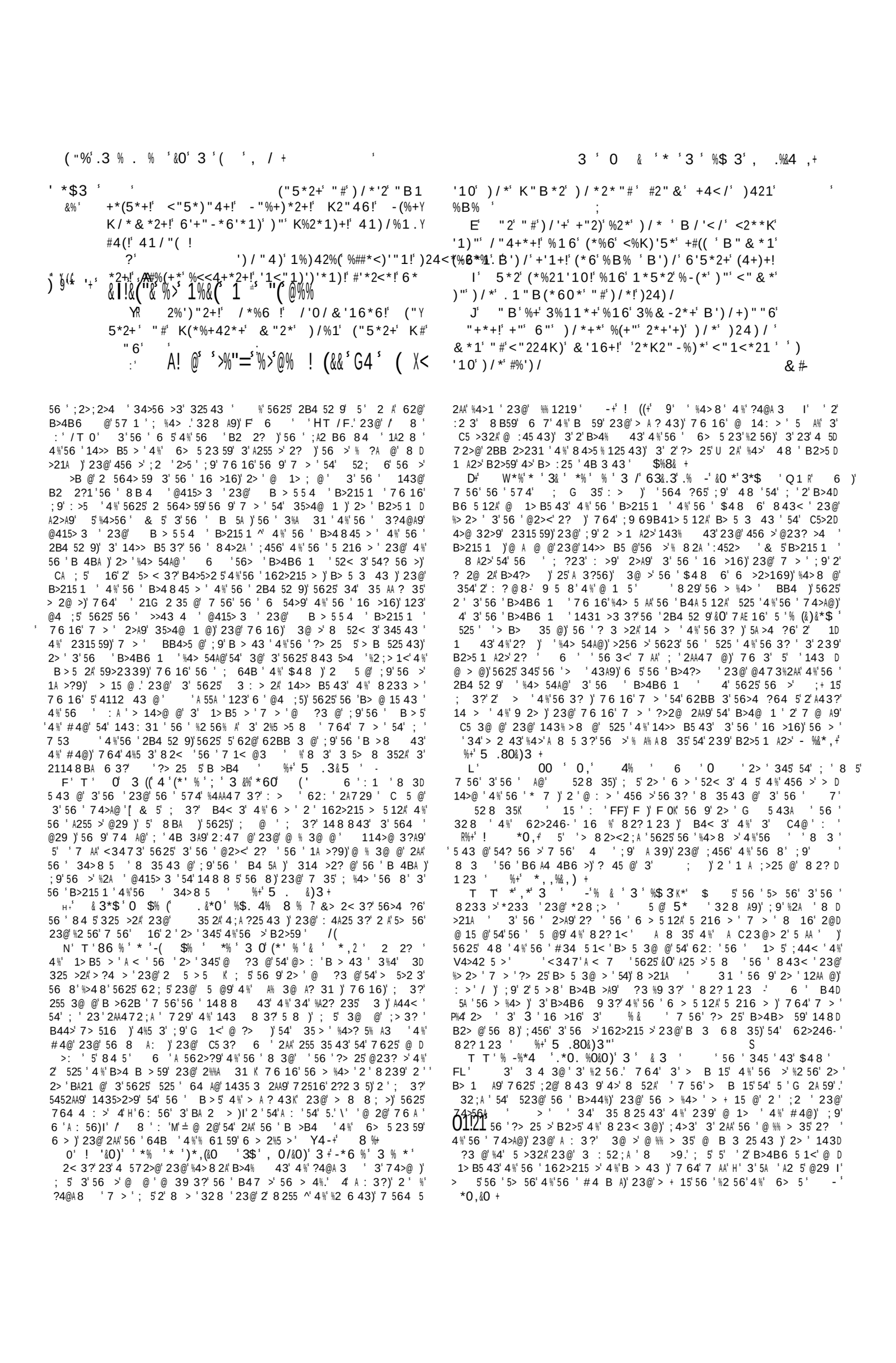

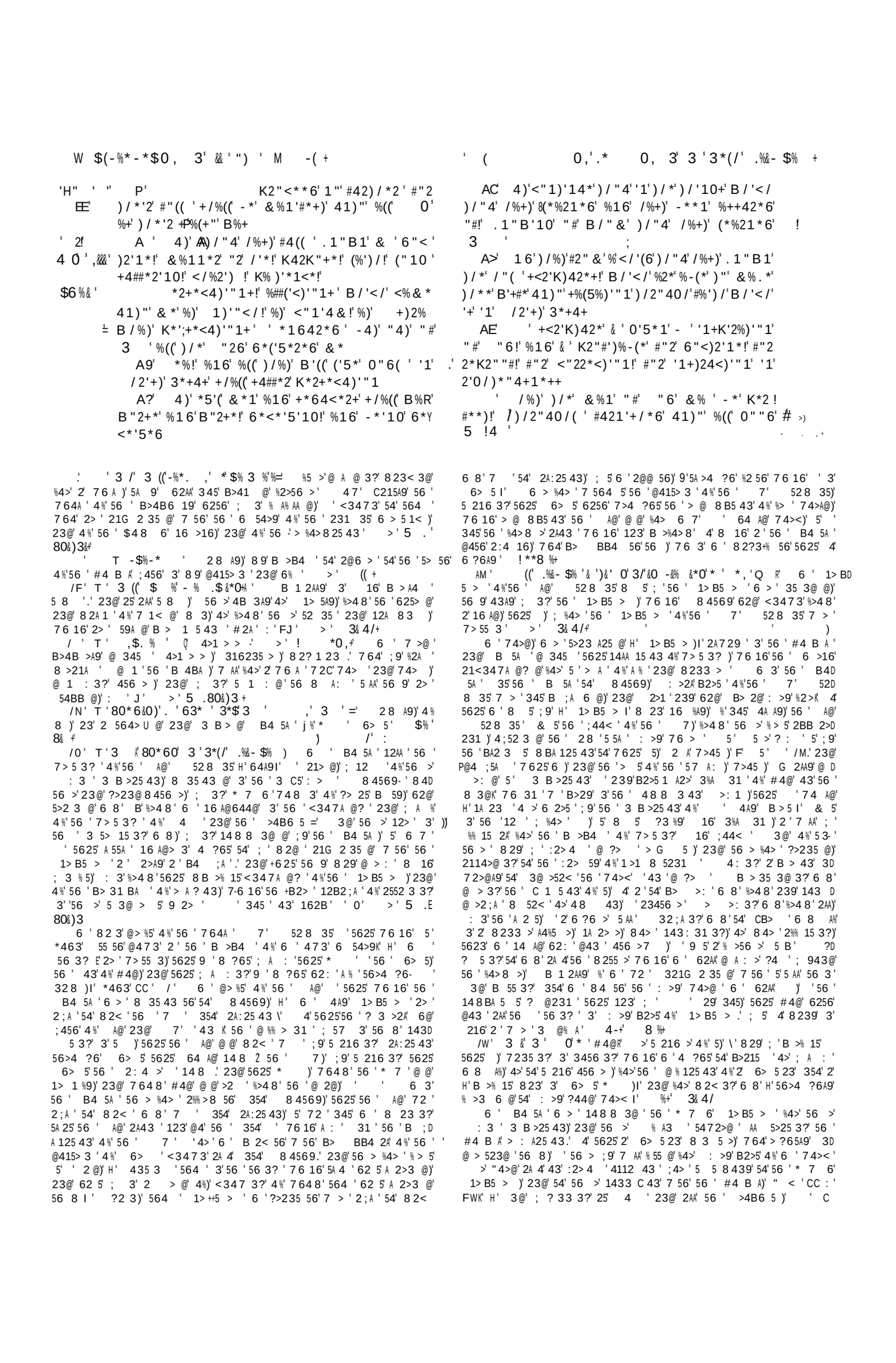

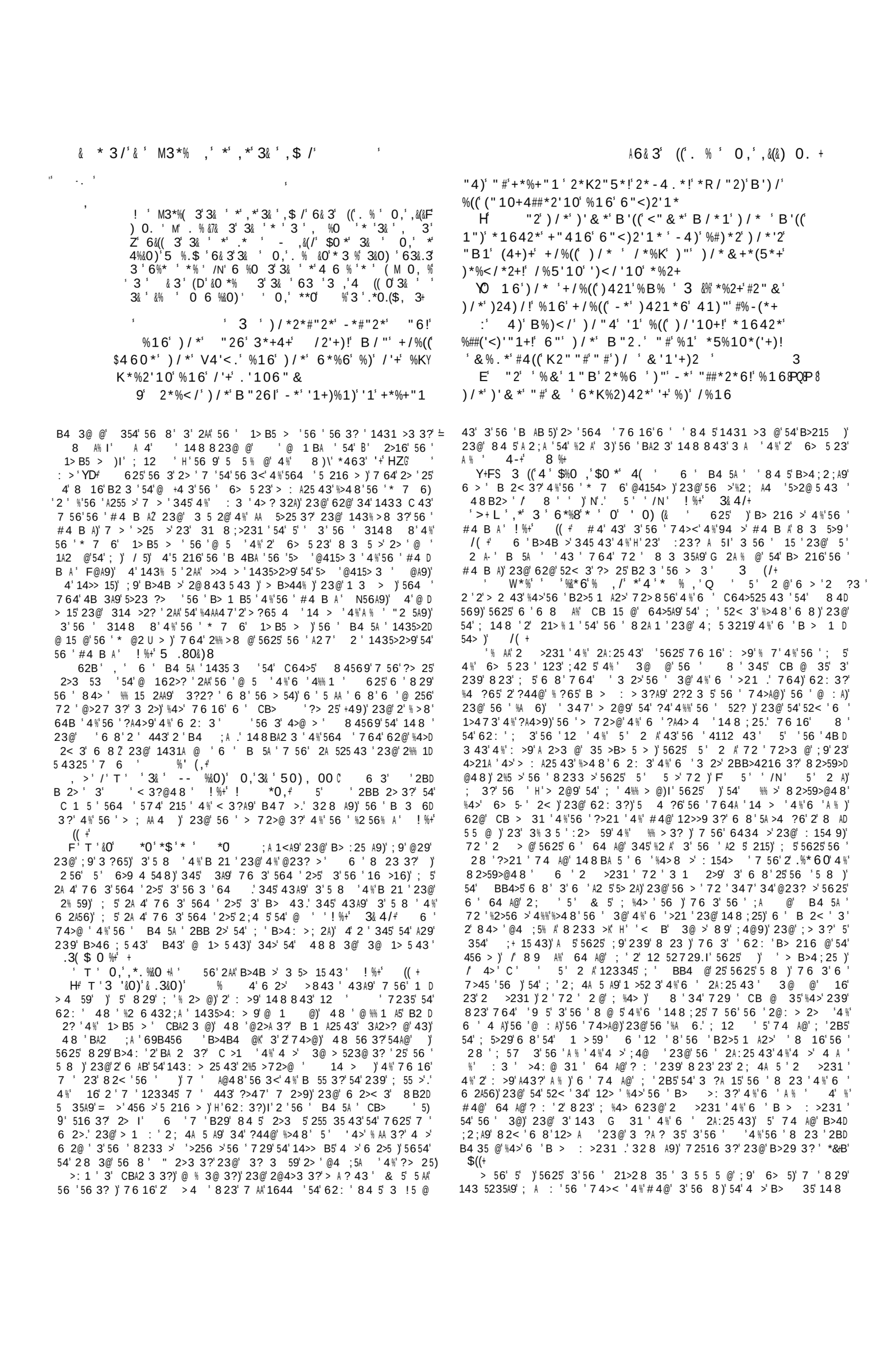

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&'0/)' -*' <%2*#4(')"' &%'1)%'1!'0""6' B"2.+' A?' 2'10' @*1%+')/*'(%B *2' %16' K"((''+'
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A?' 2'10' @*1%+')/*'(%B *2' %16' K"((''+' "1')/*'2$"421* '6'('0*1)(!')/%)' 1")/'10' -*' ; B%1)'10' 41)"')/*&
' AC' 16'(*)'"42 ≠ %(+"'(*%21'#"' A&%'1)%'1' % 2!' 0""6' B"2.+' #"2' 1*<*++%2 ' 4+*+!')/%)')/* ' -*' 1")' 41#24')#4(
A:' ((')/%)' %2*' B')/' &*' +%(4)*')/**' 2**)')/*&')/%)' ("5*' 4+' '1')/*' #%')/' 2%<*' B')/' "4'%((' & *1

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3'56 '16 >16)' 23@' ?256 > ' 23@' > 1 : ' @ 1 BA ' 4>' %4AA47 > '54' 6 8 A%)' 3' 4BB4 5 43' 54)' 4>' B2>25 43' 23@' @ : 43' %>48)' 56 ' 16 >16K 2114>@ 3?' 54' 7 6 16' 56 '6 > 51<' '@ % 3 @' ; 9' 5625' A 2>3 @' ?>28 8 2> 23' 916)' 2 ' (' 6 '5625' 4A 44 56' 54' 62: ' 48 '456 >' 4B 3 43' 4>' @415> 3)' ; @)' 4>' 3' 4BB4 5 43' 54)' 4>' 3' B> % > 31 ' 54)' 56 ' 5> 56 -' 6 ' 328)' 647 : >)' ; A43?)' 345' 43A9' 54' 564 ' 764' 2> '56 ' % > 5' 3' @ 8 325 3?' 2' %2A ' @415> 3)' ; 5' 54' 564 ' 2A 4' 764' 3@ 2:4 >' 54' 14>> B5' 456 >)' 23@' @>27' 56 8' 354' 56 ' %215 43' 7 56' 56 8 ' %+' ! *0,+
': ' % 7 .` ' 6+=')' 62: ' 34' 84> '54' @4' 7 56' 6 8)' ; 5' CD 148 8 3 125 ' 6 8 ' %+' ((+
//+ & ' ,%' % ,AJ >' 5 >3 @' 27 29' %>48' 56 '5> 56)' 4' 2 '345' 54' ; ' > 1A2 8 @.' H' 23@' 33 56\' 3' 56 ' 6 ?6 5' 8233 >)' 2 ' 33 3?' 2?2 3 5' 6 '473' 143 1 31)' 23@' 4' H' ; 3?' 143@ 83 @' 4%' 6 8 A%' 23@' 56 > %4> ' 31 ' 56 ' A% 143@ 8 325 43' 7 AA' 345' 74><' B43' 6 8)' 56 > ' ' 34' 64B '54' 56 3<' 4%' > 1A2 8 3?' 6 8' ; 9' 143: 15 43' %+' " ≠ ']
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!' %' K2'+"1*2' "#' 3*+4+' /2'+)!' %16' '&")/ ' *$%' -2")/*2!' 41)"' /'(*&"1' "42' 6*%2('-*("5*6!'%16'#*((B(%-"42*2! 9' 16')"' *$%' -*("5*6' KK/'%!' %16' 2' B%26'%((' +%'1)+' ' ! </'KK4+'"42'#*((B+"(6'*2!'%16')"')/*'</42</'1')/ '/"4+*

?' 2%<*')"' "4!' %16' K*%<*!' #2"&' "6 K42' %)('*2'%''6')/*' "26'3*+4+' /2'+)' < P C' ')/%1.' & ' "6!' &%.'10' &*1)'"1' "#)/**'%(B% +' '1' & 'K2% *2+! :' *%2'10' "#')/ '("5*' %16'#%')/!' B/'</)/"4'/%+)')"B%26')/*' "26'3*+4+!'%16')"Y E' /%)')/*'<"&&41'<%)'"1' "#)/ '#%')/' &% '-*<"&*' *##*<)4%(' - ')/*' %<.1"B(*60

, >'/' T ' ((*6(4*$% % ' 31 ' 48 'B > 43 ' BB4 ' 6 A D 843'54'62: ' ; 3'2'8 3 5 >'4%'56 '#4 B A' & 5'56 '2BB AA25 43' ' %'28; ? 4 ' ?3 % 125 43.' ; 3?'?: 3)'345'43A9'54' 8 3 5 >)' ; 5' 54' 16' B 4 ' B > 43)' 76 56 >' 8 3' 4>' 748 3)' 2' 2 5 @' 56 ' B4 5A ' 3'239' 8233 >)' 76 A 5'56 9' 7 >' 8 BA49 @' 3' B> 216 3?' (P% +' 3&4/' 23@' 5 .80&)8 +

F' T ' --3& ' T ' %.3&--$ AN' 48 '4%'56 ''256 >' BB4 '5625' H' BB6 2I'72 '56 '7 % '4%' 6 A 843' H' >16 BB I'72 'B>4;2;A9' 43 '4%' 6 '%28 A9'.' " ?65%445' 29)' 6 ' 43' ' 829'62: ' ; 3' 12AA @'56 'H'% AA47 4A@ >I'4%'56 ' B4 5A)'2 ' ; 3?'2'8 3 5 >' 3D ?2? @'7 56'6 8' 3'56 '74><'4%'56 '#4 B A)' 6 ' 'FO'i' 4A' : '/W' % +' 3&4/'23@' 5 .80&)3 +'

T ' 0,' *' 3 '.3$%.3'&0' 3/'3 * $ 625')' 2AA' 56 '> 5' 4%' A ' 6> 5 23'%28 A9)' 4>' 2AA' 16' 2'7 > '7435'54'2 8;A ' 3' 6 ' 64 ' 54' B >%4>8' : 3 ' . >: 1 .' %4>' 6> 5 23 ' 56 3' 62@' 345' A ; >59' B ;A 1<A9'54'B >%4>8'5625'@ 59' &%+' ((' $%8& " >+' ! %&0)' ' 3/'(*' ' 0,' & 3 'Q ' 28 A9)' 4%'569'%2 56' 76 16'564 '62 5'5472>@ '56 '"4>@'*)' 23@' 4%'569'A4: '5472>@ ' 2AA' 2 35 ' 48B2>' 4A' 'N' 6 '5>23 B4 5 43'4%'56 '74>@ ' ' 345' 3148 843' ' 23' 3 5231 '4%' 5' 3' 255 ' C ' FF' % +' (('23@' 3&4/+ D+' 3 ' 3 '.* 60&. & '* '3/' & 3' /'4 .* ' . $ (Q1 R' ' %' 6 ' 62@' 2@' 3@' 8 9' B>29 >' & '5625' 569'A ; >2A 59'54' 56 ' 2 35)' 76 16' '56 '%> 5'4%'569'%2 56)' 8 29' ; 128 ' %% 15 @'54'56?

$(' , &% 3' 3&(*0' * "

4%)&' '3& ' %' 0 ' 0 &% &$

' "#' *5*2 ' 0"" 6')/'10' B/'</' '+' '1' "4' EC' '1' /2'+)' 3*+4+ !

I' "2' B*' /%5*' 02*%)'$" '%16' <"1+"(%)'"1' '1')/ '("5*!'-*<%4+*')/*'-"B*(+' "#')/*'+%'1)+' %2*' 2*#2*+/*6'- ')/**!'-2")/*2

J' /*2*#"2*!')/"40/' '&'0/)' -*' &4</' -"(6''1' /2'+)')"'*1$"'1')/**')/%)' B/'</'+!' <"15*1'*1)!

L' *)' #"2' ("5* +' +%.*' '2%)/*2' -*+**</' &3 '-*'10'+4</' %1' "1*'%+' %4(')/*' %0*6!' %16'1"B'%(+"'%K2'+"1*2' "#'3*+4+' /2'+)

A' '-*+**</')/**'#"2' &'+"1' 1*+'&4+!' B/"&' '/%5*'-*0"))*1''1'&'-"16+

AA' /'</'1')'&*'K%+)' B%+')"'))/**'41Y K2"#')%-(*!'-4)' 1"B' K2"#')%-(*')"')/**'%16')"'&*

' A9' /"&' '/%5*'+*1)'%0%'1')/"4')/*2*Y #"2*'2*<*'5*'/'&!')/%)'+!'&'1*'"B1'-"B*(+

A?' /"&' 'B"4(6'/%5*'2*)%'1*6'B')/ &*!')/%#'1')/ '+)*%6'/*'&'0/)' /%5*'&'1Y '+)*2*6'41)"'&*'1')($*'-"16+'"#')/*'0"+Y K*('

AC' 4)' B')/"4)')/ ' &'16' B"4(6' '6"' 1")/'10' ')/%)')/ '-*1*#')'+/"4(6;1")'-*'%+' ! ')'B*2*'"#'1*<*++') !'-4)'B'((' 10(

A:' "2'K*2/%K+'/*')/*2*#"2*'6*K%2)*6'#"2' %'+*%+"1!')/%)')/"4'+/"4(6*+)' 2*<*'5*' /'&' #"2'*5*2

AE' ")'1"B'%+' %'+*25%1)!'-4)'%-"5*' %' +*25%1)!'%'-2")/*2'-*("5*6!'+K*<'%((')"' &*!' -4)'/"B'&4</'&"2*' 41)"')/**!'-")/'1')/*' #(*+/!'%16'1')/*' "26'[

' #')/"4'<"41)' &*')/*2*#"2*'%'K%2)1*2!' 2*<*'5*'/'&'%+' &' +*(#

AJ' #'/*' /%)/'B2"10*6')/**!'K2' "B*#(" 3 '"40/)!'K4)'/%)'"1'&'1*'%<<"41)

AL' ' %4(' /%5*'B2'))*1''#'B')/'&'1*'"B1' /%16!' 'B'((' 2*K% '& G' %(-*')' 6"'1")' +% ')"')/**'/"B')/"4'"B*+)'41)"'&*'*5*1')/'1*' "B1'+*(#'-*+'6*+'

9' *%!'-2")/*2!'(*)' &*' /%5*'$" '"#')/**' '1')/*' "26' 2*#2*+/' & ' -"B*(+' '1')/*' "26

9A' %5'10' <"1#'6*1<*'1')/ '"-*6'*1<*

21<347A @?8 35'4%'569'?44@' 74><';9'456 >' 6> 523)'764'62>' 4%' 16' 3 5231 '4%'569'162>59' %+' 3&4/# >)' 5'123345';5' ;'2'8255>'4%'56'@ B 5' 25 %215 43'54' 8)'54'62:' 16'28BA' 5 5 843 '4%'94 >' 6> 523' 31 >59)' 3'94 >'?3>4 '>A %'4%' 56'3@?35'23@' %% >3?'8 8;>'4%'5625'64A9'B>4% 43)' \' 6' 1488 3 125 43'4%'569'%2 56.I'94 >' 62> 3?'23@'B2>52<3?'4%'56' 6> 523E'%2 56K' 9'&9'56'21<347A @?3?'4%' :>9'?44@'56 3?' ;9]'94 >'823% 53?' :>9'?44@'56 3?'54';' 3'94 ' /(+ &9' 3?'56'BA >2A'B>434 3'[=94)I'56' B4 5A'B>2 @'2AA'56'8 8D ;>'4%' 6A843-'%28 A9)'%4>'56 >'74><'4%'162>59'54'56' 2 35.' ;5'84>' B 1 2AA9' 6A843'68 A%)'2'5' '6>'3 3 25 @'56 25' 6'%28 A9'72'A @'54'@4'56 ';3:4A 35'4%%1 '3' 8 525 43'4%' 68' %+'5 .80&)3+

W'T'4.$ '3'4*%'('*'3' &0' %'%% 3,'4/'8 ' >D 62B'56' B4 5A'8 235)'5625'56'<347A @?'4%' 6A843-'162>5D 2;A'215 43'?2:'?> 25' ':3'54'56' 2 35'764'62@'34'3 @'4%)' 6'?44@'4%%1 ' %+'5 .80&)3+' 9' 6';47 A)I'3' 1>B5>' A23?2?)'@ 345'53@'>'2%% 15 43)'76 56>'4%'A4:)'4>'4%'B 59)' 8 >19)'4>'148B2 43' 5' ':@ 35'5625'56' 2BBA 125 43'4%'56' 74>@' '52<3'%>48'5625' 148 845 43' 4>'9 2>3 3?'4%'56';47 A)' 76 16' '% A5' 3'5 3@>'2%% 15 43)'76 56>'4%'A4:'4>'B 59' 31)' 76 3' 16'2'5 3@>'2%% 15 43' '?>25 % @)'56';47 A'2>' 2@'54';' > %> 6@)'2BB 2 @)'G 5@.'2'6>'23@' 3' 56' F 56':> ' %83$% +

L' L 3*$)3' ' &)3'4' $.3'4*(,'&0' 3%& ' 625')' 3'>D B 15'4%'56' B4 54A 12A' 2 564>59'148 8 55@'54' 8 ';9' 6> 5' %+' ((+

I& L' $(' 3') ,BN '72'B>4;2;A9'25'56 '5 8 '84>'5623' C59'9 2>'4%'2? ' %+' 3& 4/+

U#' L'+63* ' '3 ' 4)* 0' &0' /' 4*0,'A' 3' 7648' ' 62:'143:>5@'54'56'%2 56)' 31' '72'2'B> 43>' %+'! E *0,+

//' T'$0-%K& 3((' 3+>4 .' '$48' 'FL.' B6)':' ' 6 '56' "25 3'74>@'%4>'[' A -'8 23' 3+>4 ' /(' 6' B4 5A)';9'8 35 43 3?'56'1623?'7>4 ?65'43' 3 8)'3 D 3 25 @'54' 6A843'56'4;A?25 43'6'A29' 3@>'54'6 8'%4>'62:3?' 82@'6' 3B>4%52;A' A2:'2'%2 56%A' 23@'2%% 15 4325' >:235'54' 68'%4>'A%' %+'5 .80&)3+' A

/F' T'3& '3'&' &0'*60'4*6 (5'2%A'56' 59A' 3 8)' 56>'%>48'56'5 3@>'2%% 15 43'6';4>'6 8.'4>'>256>' 2';3?'6' 43' 3'56'%2 56'4%' 6>5K' 148B2>':>'/' 6' 16A@>3'2>' 48 5 8 '12AA @)';456'3'#> <'23@'"25 3'2 564>' %83$% +

/L' T'3 '&0'3/' ,'3' &)3'3 ' ' &0& % ,'$0*' 7 625' 6'8?65'62:'@43'8'564 '?44@'4%%1)'76 16' '<347'94 > A%' 74 A@'?A2@A9'B >%4>8)' %'94 '14 A@' /(+

/N' T'3 '3/'4 0 &' 3*$(,'0*'3' ' &' % '*'0. &/'4$' b&("0)(/+F=' %' 3 8 '62@'>823@'7 56'56' BB 5A'3'$48)' 23@' 6A843'62@'B2>@43 @'6 8'25'@ ' B4 5A-'35>1 43)'5625' %2:4>'74 A@'345'62:''2BB 2>@'4'1A 2>A9'54'62:';' 3';' 547 @' :4A 352>A9)'2'76 3' 3 8 '>5>3@'23@'B 5'6 8 A%' 3'6' 82 5>-'B47 >)'23@'72'>1 :@'2?2 3' 354'6' %28 A9' 6' B4 5A)'56>%4>)' 35'6 8';21<'54' 6A843)'5625'6'>1 :3?' 6 8' 8 ?65';'<347 3'54'62:'B>41 @@'%>48'6'473'8 >1% A' @ B4 543' %+'5 .80&)3+

/0'W*%'-%3 -'3'3 %*%',-%,'*%' *0'Q1 RF' 6 B4 5A'6>'82@'56'28'<3@'4%'2B4A4?9'%4>' 3 8)'76 16' *4 B6'@@'%4>'6';>56>3'6 '>4:@ 31'4%'#4@'4%5 3';>3? \' ?44@'4 5'4%' :A'9 5'7'64 A@'345'56>%4>'@4' :A'5625'?4' 829'148 '%+'5 .80&)3+' # 3'CA:'0.'/'F .'23@'56' 345 '56>'

T T'*%' '%' >)'H'%4>'A%)I'76 16'72'B>4;2;A9'56' B4 5A-'8 23 3?'& 5' 48' BB4 '5625' 5' ?3%' 6A843-' 62:3?' 3 8 '2'2' ;>456>'B'%4>' :>56'>A25 43';57 3' 6> 523'2';>56>3';3?'54' ;5' 3'56'3 C5'74>A@' %+' 5 .80&)3+

D#' T'4*'' ' %'0' '4%*3%4(*' ,' A564 ?6' 6> 523 59' @456' 345'52<'2729'56'@?> '4%'B>43)'23@'@ 4A:'56'1:A' @%%>31 ';57 3'823'23@'823)'9 5' 5'82<56' '2AA' G 2A'23@' % AA47';>56>3' 3' 6> 5' $%8&

'$0*3 '4*3'&0'3'83' 0,'&0' 3'"4>@^R' 4'56) 764'62 5'2'@4 ;A'>A25 43'54'6 8)'2'43'4%'569'%28 A9)'23@'43'4%' 569'%2 56' %+'! *0,+

=+' 3*$'.*$0' 3%*%' '-%0%28 A9)'3'569'%>3@' 6B' %+' 3& 4/'23@' ((+

/J' T'3*6'3*$'*6 '$0*' ' 0' 3&0'*60' ('4&, +B' 8D BA9 3?'7625'?>25'56 3?'6'62@'@43'%4>' 6A843'3'6'143:>D 43'.'4'?>25'2'82@' 6A843'2'@ ;54>)'345'43A9'4%'6'473' ?44@)';5'4%'6 8 A%'544' 6'B4 5A'647 :>'43A9'?A231'25 56'7 56'?>25'84@ 59' $%8& +

F' T'%% 3' /'4*6 ('&0' 3' *%,+F= 9';47 A'9 2>3'43' 3 8 ' $ 84:'89'23C 59'1431>3 3?'6 8)'7648' '4'5 3D @ >A9'A4:)';9'B2>@43 3?'6 8)'23@'>1 :3?'6 8'2?2 3' 354'569' %28 A9' 6' '56'84 5'325 >2A' 35>B> 525 43' 4%'56'B2 2?' % +5 .80&)3'23@' 3& 4/+ '56'345'%>48' 2><6>5' 3' :>')W

00,'38)(/' *'% . & '3& ') &0+

! ! '. 0.3&, 3'A6&3' ($ &*0 +

' '' P' B2")*' 41)"')/**!' .1"B'10')/%)')/"4' B'()'
C' %(+"' 6"' &"2*')/%1' '+% !
99' 4)' B')/%(' K2*K%2*' &*' %(+"' %' ("60Y
'10' ' *%' ')24+)')/%)')/2"40/' "42' K2% *2+'
A' +/%((' -*' 0'5*1' 41)"' "4
H' /*2*' +%(4)*')/**' K%K/2%+!' & '#*('
("5;K2'+"1*2' '1' /2'+)' 3*+4+' $

9C' %2"4+!' 2'+)%2</4+!' *&%+!' 4<%+!'
& '#*((" B(%-"42*2+ MN
9:' /*'02%<*' "#' "42' "26' 3*+4+' /2'+)'
B')/' "42' +K'2)' &*1' ;

P' 2'))*1'#2"&' "&*)"' /'(*&"1!' -'
1*+'&4+'%' +*25%1)

F/' T'80*6&0)' 3 '3*$'6&(' (*',* *%' 3 0' ' +FN 3'56 '
; 2 5% A'B2 2?)' :>'LTF/)'6'62:'56 '?> 25 5':2> 59'4%'2>D
? 8 35'23@'845: '4%'56 ' 5>43? 5'<3@)'14 16 @' 3'5>8'56 '
84 5' 4%5'23@'B> 2 : ' 3'56 '43'623@'7 '62:' 6A843-'
>B 525 43'%4>'?44@3)'56 '> B 15'@ '54'6 '473'162>215 >)'6 '
%> 3@ 6B'%4>' 5.' 2A)'56 '>:>31'1A2 8 @';9'56 ' B4 5A-'
2?)'56 '148B2 43'@ '54'6 ';43@K'43'56 '456 >)'7 '62:'
3 8 -'>B 35231'23@'>5 >3'54':>5)'6 '143:> 43'54'56 '
6> 523'>A?43)'23@'143 G 35'1A2 8'43' 6A843-'B 59'2'6 '
B>5 2A';>456 >.' 6 '%2 56% A' >:1 '54' 5' 2 A)'56 '5 3@>'3D
5> 5'56 ' B4 5A'544<' 3'6 '1431 >3)'2'B>48 '4%'> 5 5 543'%4>'
239'B 1 3 2 9'A4)'21148B23 @'7 56'23' 3 3 25 43)'5625' 6A D
843'72 ' 3@ ;5 @'54'56 ' B4 5A'%4>'7625'72 ' 8 16' 84>'5623'
56 ' B2>@43' 4%' 6 '>B 35235' A2:)' :3'6 '473' C 5 31 '2 '2'
6> 523)'56 '%4>?:3 '4%'6 ' 3)'23@'6 '2@8 43' 354'56 '
<3?@48'4%'6 2:3)' & 5'56 '35>1 4>'3 5'345'43'6 '2 564D
>59'2'23' B4 5A)'4>'6 '1A2 8'54' 6A843-'?>255 @K'6 ' ;D
8 5'2A'54'6 '%> '?3>4 59.'23@'1A4 '7 56'2'@ 1A2>25 43'4%'6 '
% AA'143% @ 31)'5625)' 3@>'56 '3%A 31'4%'5625)' 6A843'74 A@'
4'84>'5623'6'8 A%'564 ?65'5'3 1 2>9'54'@ >' 23'56 >'
;'2'@4 ;5)'76 56 >' 16'23'2@@> 'B>41 @@'%>48'2'%2325 1<)'
7 2<'23@' C5>2:2?235)'1A2 8 3?'2' B>5 2A'2 564>59'76 16'62@'
34'456 >'%4 3@25 43'5623'6 '473' B>5 2A'2>>4?231)'23@' C >1 >'
3?'56 '2 564>59)'2' 16'2'5 8B>'8 5'62:' C >1 @'5)'3@ D
1>8 325 A9'23@' :4A 35A9)' 3>2 432;A9'23@'8 16 :4 A9' 4>'
76 56 >'56 ' B 5A'72'345'>256 >'5A ' %% 43'4%'223 3@)'>BA 5'
7 56'?44@' 3)':> @' 3'56 '<347A @?'4%'56 '6 823'6 2>5)'
23 825 @'7 56'56 ';5'23@'5 3@>5'% A 3?.';5'764 ':>9'
% A 3?72'>?A25 @';9'56 '1A 2> 5'>2 43)'1A2 8 3?'34'2 Z'
564>5='54'76 16'56 >'72'345'56 '84 5' 3@ B 52;A'5 5A)'23@'
C >1 3?'5625' 2 564>59'7 56'56 ' 4 3@ 5' @ 1>5 43'^ >'
% ' +

FF' T' 3%*$)3' /*$%'-% / % F= 6 ' B4 5A'<3 7'56 ' %% 1219'
4%'56 'B>29 >'4%'56 '16 >16)'%4>'B> >:25 43'4%' 6> 5- ' 8 3 35'
>:235 '%>48' 8B 3@ 3?'@23? >)'2' 3'56 '12 '4%' 5' 5 >)' 15
C .'23@'56 >%4>' 3' 84 5'4%'6 ' B 5A '<' :>9' 2>3 5A9'3D
5> 25' 56 ' B>29 >' 4%'56 ' 16 >16)'5625'6 ' 8 ?65';' 32;A@'54'
B> 216'56 ' #4 B A'7 56'%> 5A48' 23@' 11)' B6':' /J.' 4A
:' .'F' 6 ' ' /K 23@'5625'6 ' 8 ?65';'@A:>@'%>48'56 ' 82)'
A 1 '4%'6 'B> 1 54>)'$48'C:')' /.'F' 6 ' F\' A '6 '
CB> '6 '143%@ 31 '5625'56 >'B>29 >'74 A@';' %% 15 2A'54'
5625' 3@)'2' 6 >)'23@'25'F' 4>' ' /)' //.' :' /N)' /0= 6A' ' /J'
2@'6 '56 '1431 :@'4%'B>29 >)'@>15 @'54'23? A'23@'@B2>5 @

2 35)'5' ':>9'>82><2;A'5625'6 ' 64 A@'345'2%%4>@'43 ' 3 5231 '
4%'56 8' 6'2 '6 ' B 5A ' >' 3& 3/+
' 3 ((' 4')&' 0' '0 *'/*$F' ' 62AA' 62:'A ; >59'%>48' 89
;43@)'23@';'B >8 55 @'54'148 '23@': 5'94 ' >'! *0,
F)FN'T' - -3% 'T'5 %.$ 'Q *' 431 >3 3?'56 'B>43 '
'#4A' 'W.' :' /F)' /N.' 15 'C ' /F.'C C' .'23@'56 '345 '43'
564 'B2 2?
F0' T'4'6&3'/*$%' -@%& ' 6 'BA >2A'B>434 3'9'94 >I' 6 7 '5625'
56 ' B4 5A'@@'345'B>29'%4>' 6A843'2A43)';5'%4>2AA'56 ' 2 35 '
25' 4A4)'764'62@'4;52 3@'A<'B> 14 '%2 56'7 56'6 8' $%(, +
6 56 >' 6A843'B2>@43 @' 3 8 ' 3'143 G 31'4%'56 '
A 55 >' '345'<3473' 3A9'%>48'56 ' 2>3 53 ' 7 56'76 16'56 '
B4 5A' 4A15@'6 'B2>@43)'23@'%>48'56 '? 3 >4 59'23@'?44@3 '
4%' 6A843-'@ B4 543)'7 '829'143+ 15 >'5625'6 '215 2AA9'B2>D
@43 @' 3 8 .'23@' :3'?2:'6 8'6 '%> @48)'3'148BA231 '
7 56'56 ' B4 5A-' 3 3 25 43)'2114>@ 3?'54'56 ' 35 >B> 525 43'4%'
48 '148 8 35254>)'5625'H'6 '74 A@'@4'84>'5623'6 ' 2@)I':>
F/' '4>'5'72'34' 3148 843'56 3?'3'231 35'5 8)'54';547'
%> @48'43' 16' A2:' 2'62@'4;52 3@'56 ' 5 8'23@'?44@7 AA'
4%'56 >'82 5>';9'56 >'%2 56% A'143@ 15' 5'2AA' :35)'56 '23D
C 59'76 16'56 ' B4 5A' 6 7 @'%4>'56 '7 A%2>'4%'eA 8)'3'
>5 >3'%4>'6 '2%% 15 4325' >:1)'14 A@'345'%2 A'54'16 > 6'?44@'
@ B4 543' 3'56 ';>2 5'4%' 6A843' 4>' '5'B4 ;A' :3'25'
56 '@29)' 4'A43?'2%5 >' 6A843'23@'6 ' A2:'2>' ;456'?43)'54'
>2@'56 'A 55 >'7 564 5' CB > 31 3?'3' 48' 8 2 >'56 ' 28 '
'62BB9' %% 15
3'56 '8 23'5 8)' %'56%5' B 5A'62@' >:@'34'456 >'B >B4 '
5623'54' 6 7'56 '74>A@'7625' 4>5 4%'2'823'56 ' B4 5A' 2 A'72'
3'B>:25 'A%)'5'74 A@'62:' ; 3'2':2A 2;A'211 43'54'56 '
12343'4%' 1>B5 > ' '4>'3'5'56 '7>5 >'6256'@ BA29 @'G 2A5 '
76 16'2>' ;9'8 3'@ >:@A9'6 A@'3'56 '?> 25 5' 5 825 46.'P
16'2'23'6 ?6' B>5'2> 3?'%>48'2'143 14 3 '4%'6 '473'
@ ?3 59)'143 8825'B> @ 31)' 3148 843'?3>4 59)'56 '72>8D
5'%> 3@ 6B)'56 '84 5' <A%%A' 2@@>)'23@'56 '?> 25 5' B4A5 D
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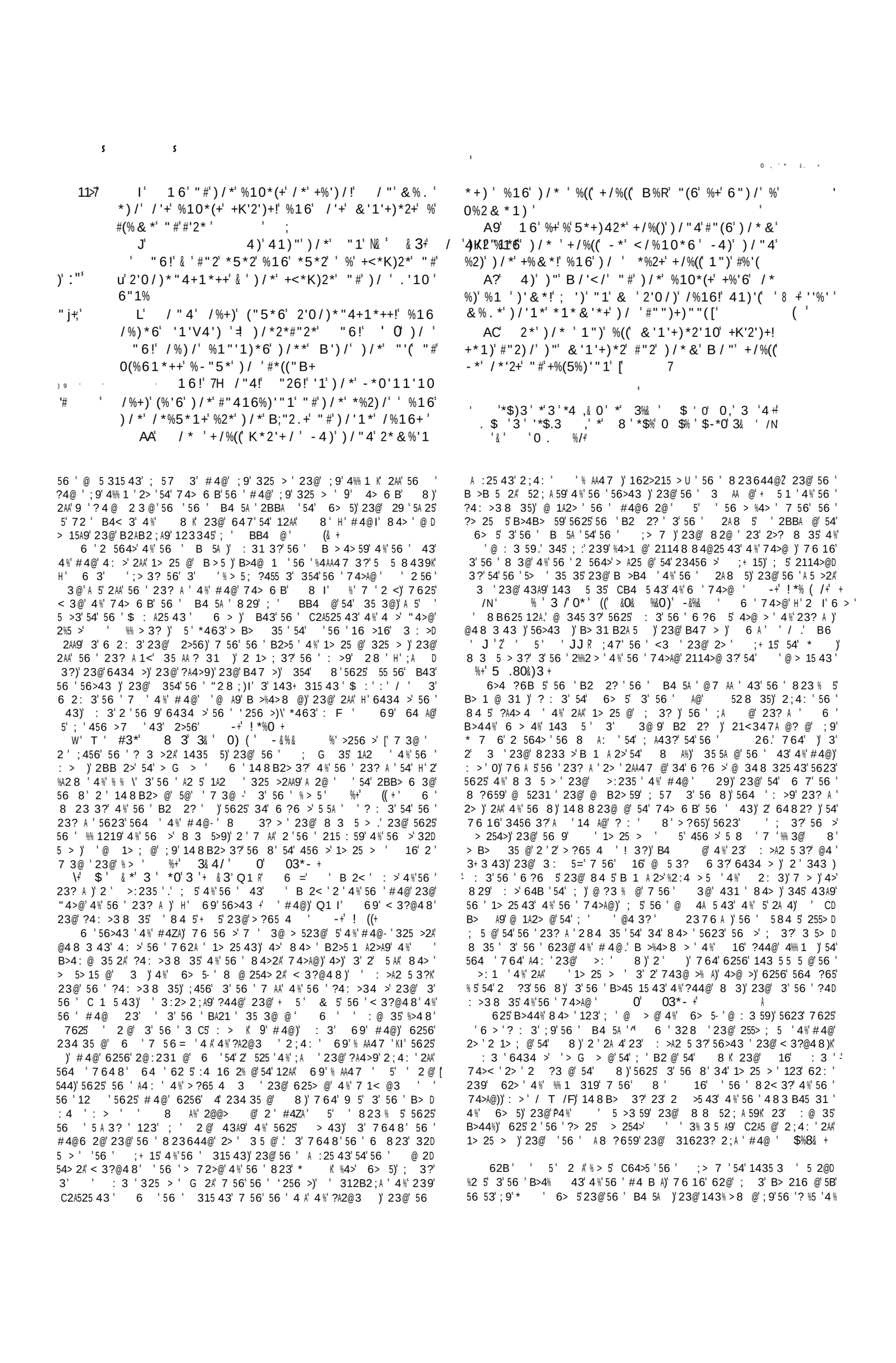

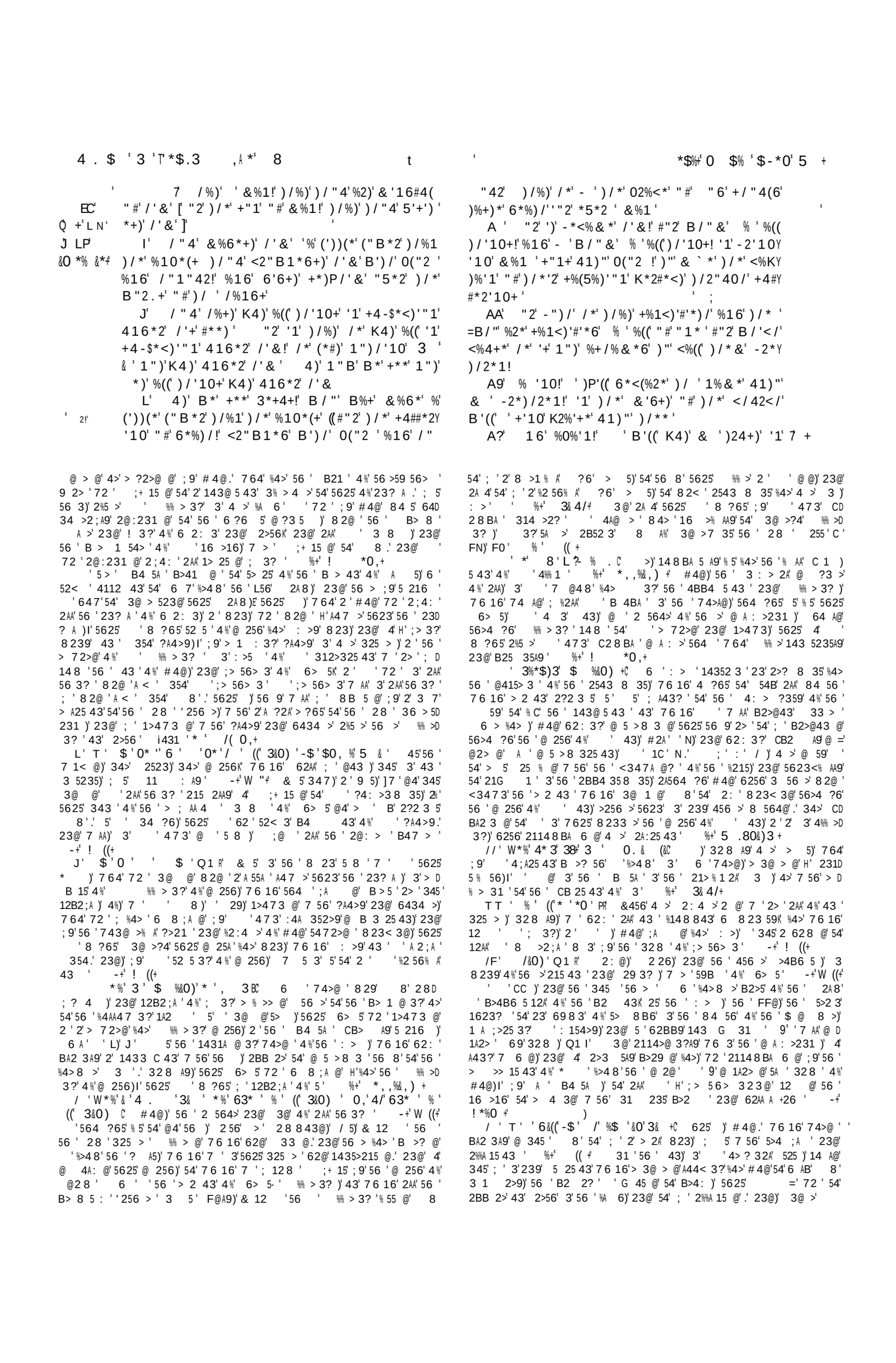

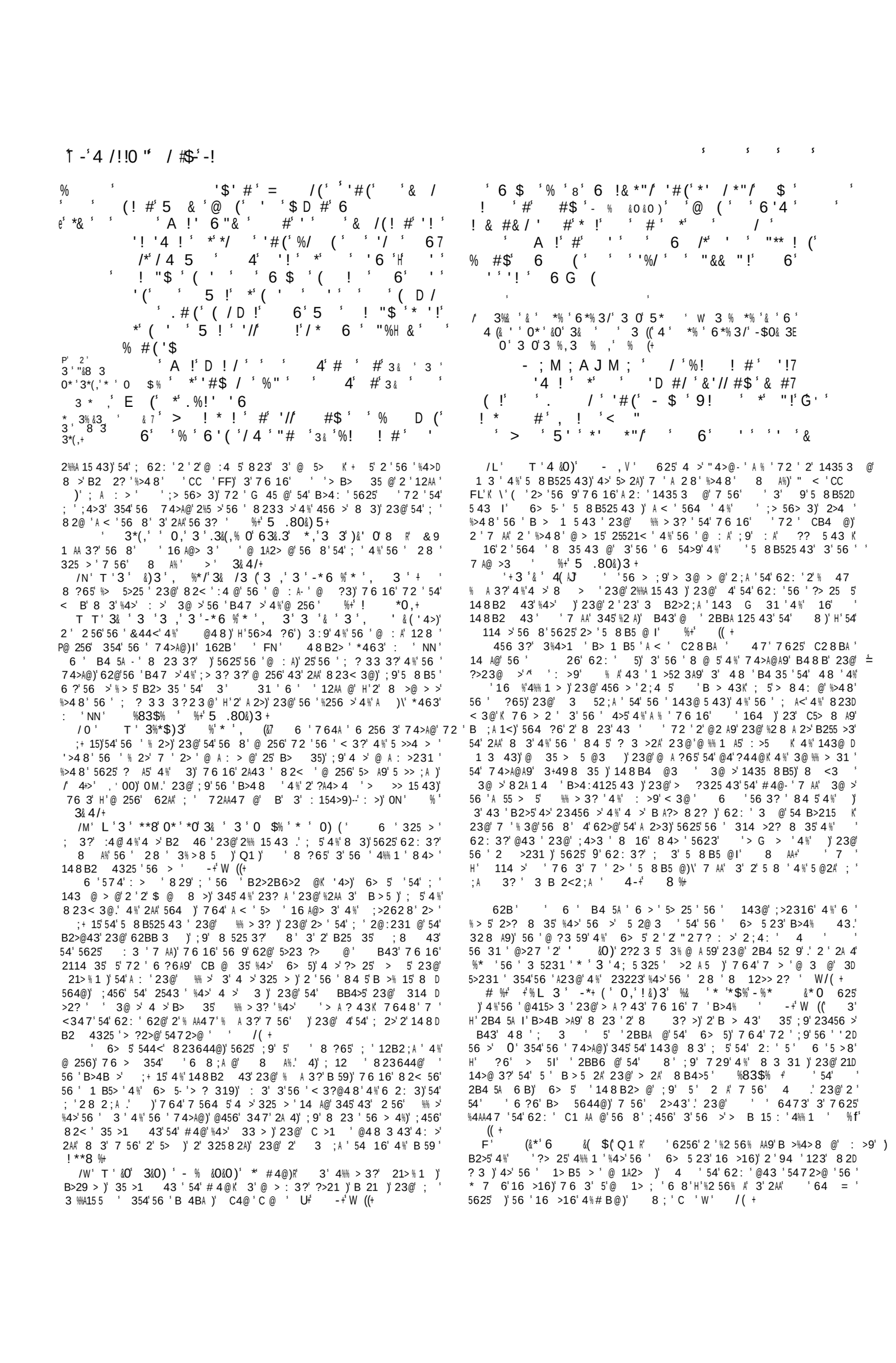

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6 7 ')' 5625' 3' 2AA' 2? ' 4%' 56 ' 74>A@' 48 ' 56 > '62: ' ; 3)' 23@'
7 AA' ;)' 764)' ; 3? ' 12>32AA9' 8 3@ @' 23@' 7 64AA9' 255216 @' 54' 56 '
74>A@)' 2> ' @ 5 5 5 '4%' 5625' B> 31 BA)' 7 6 16' 56 ' 1> B5 > ' 12AA ' ; 9'
56 '328 '4%' 9' %2 5 6 2 3 @' 7 6 16)' 2 ' 23' 3 : > 2A' 5 5' 54' 56 ' >D
:235 '4%' #4@)' '56 ' 28 '9 5 >@29)' 54 @29)' 23@' %4>' : >' *0 '
* ' /(0,+
H#' W*%' '63&.3' 3 ' '4,&.' (>)' 7 ' 764' 2> ' ; A : > ' %+'
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'3 ' &,+' ' '3 ' ' 6*%0' &0' /' 6% 3'& '3 /' 3 ((0 %
&/&(*' /'% ' I ' 625')' \'56 9' 62AA' 345' 35 >' 354' 9' > 5)\' 162B')
' //' 6 ' #> <' B6>2 ' 3' 216' BA21 ' '56 ' 28)' 23@' '6 > '
A 5 >2AA9' > 3@ > @)' %'56 9' 62AA' 35 >KI' 8 23 3?' " 5' 345' ; '
#4@)' 4>' " 5' '345' ; '5>)' %' 56 9' 35 >' 6 '%4>8' 4%' 7 2>D
3?' ' : >9' %> G 35' 3' 56 ' A@' 52 8 35)' 2)' 2114>@ 3?' 54' 56 '
4> ? 32A' B6>2)' 3' 5' ' H>2 ' C1: ' //.' / 28 ' ' /N.'
' CCC C' H>' 2 1CCC ' /T N' 4' 2A 4' 3' 2><' : ' /F' %+'
3& 4/+
6 ' B4 5A =' 2>? 8 35' '54' 56 ' B >B4 K' 3?' 8 3' 2> ' ; 9'
56 ' 4256' 4%' #4@' C1A @ @' %>48' #4@-' > 5' 43' 2114 35' 4%' 3; A %)'
56 ' 8BA '5625' 564 ' 764' ; A : ' 62AA' 35 >' 354' '> 5' %+'
.80&)(& +
(3*$)3' 3 ' 6*%8 ' % ' &0& 3 ,' %* ' 3 ' *$0, &*0' * ' 3
6*%(,(/' #4@-' 7 2> 3?' 5625' 56 ' > ; AA 4 ' >2 A 5 ' 3' 56 ' 7 AD
@ >3 ' 64 A@' 345' 35 >' 354' '> 5)' 3457 5A 523@ 3? 5A ' 74><'
4%' 1> 25 43' 7 > '% 3 6 @' 23@' 56 ' : 356' @29' 72 ' 3 5 5 5 @' %>48'
56 ' ; ? 33 3?)' ' 8 35 43 @' 3' 56 ' BA21)' 54' 6 7' 5625' 56 ' > 5)'
%>48' 7 6 16' 56 ' >2 A 5 ' 7 > ' C1A @ @)' 72 ' 345' 56 ' : 8 56 @29'
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' 4>' 56 ' 1A 2> >' 3@ > 523@ 3?' 4%' 56 ' B2 2?' 5' 8 5' ; '4; >: @)'
5625' 56 > ' ' 2' 56> %4A@' > 5' B4< 3' 4%' 3' 1> B5 >)' 2AA' 7 6 16' 2> '
12AA @' H)\' 5625')' #4@-' > 5.' ; 3?' 2AA' 4%' '2BB4 35 3?' 23@'
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B 12A' > 5' 3' 56 ' A23@' 4%' 23223K' L@A9)' 3' 5 >32A' > 5' 7 56' #4@'
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A2 5' > 5' $%8& +

+ 6%' ? 3 >2A' 14B ' 23@' 1433 C 43' 4%' : > 'HL D' 829' ; '56 '
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> 5' 4%' #4@' ' 8 35 43 @' 6 3' #4@' 62@' %3 6 @' 56 ' 74><' 4%'
56 '1> 25 43' ' ' 2 @' 54' 62: ' 9'> 5 @' %>48' ' 74><' I' 3@'
7 6 3' 56 ' 2A 8 5)' 'C1:)' 8 35 43 '56 ' 35>231 ' 354' 9' #4@-'
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8 235' 4%' 56 >' 35 > 3?' 354' 56 ' A23@' 4%' 23223)' 2 ' 2' > 5%>48'
56 >' 5>2: A ' 3' 56 ' 7 A@ >3 .' ; 5' 2 ' 5' > A25 '54' 56 ' * 7 ' 4%'
6 '473' 5 8)' 54' 7648' 2: @' B4< '56 8)' 5' 8 5' 62: ' 2' 6 ?6 >'
8 23 3?' 5623' 56 ' > 5 4% 23223)' 7 6 16' 564 ' 8 >8 > > 'A4 5' ; 9'
3%@ A 59' /(+
WT J' c) &0' 3 '(& & 3' '. % &0' , /' Q1 +' ' 2>)' 2 ' 5625' CD
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4%' 56 ' A23@' 4%' 23223)' 354' 7 6 16' *4 6 2' ;>4 ?65' 56 >' %4> D
%256 > '.' 56 ' H' > 5' 4%' # 4@\' B>4B4 @' 54' 56 8' 148@' 345' ; '5625)'
; 5' 8 5' ?3 %9' 2' % 5 > ' 525 ' 4%' 6 2: 3A9' 62BB 3 '.' 56 ' 28 '
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L' ` ' &$ ' 6 ' #> <' 5>23 A25 43' 4%' 56 ' ;> 7' 74>@'
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43)' 16' 2' 4)' 255 ' CC : ' W)' * B65;2)' # @ 43)' 23@' 456 >)'
; ' C)' 7 6 16' 2> ' ? : 3' 3 5 2@' 4%' 56 ' ;> 7' 328)' 426)'
* B65626)' # @ 43)' Q1 ' %+' ((+
I#' 3 % ' % &0 3' 3 % *% ' ' %' ' *' 3 ' - *-(' * ' #4@ R' 6 '
B4 5A ' 62: 3?' 52;A 6 @' 56 ' 1431A 43' ; 9' + 5' > 2 43 3?' 43'
56 ' 29 3? ' 4%' 56 ' 4A9' #64 5)' 55 > @' ; 9' 56 ' 84 56' 4%' 2: @)'
56 ' 525 ' 4%' 56 ' >2 A 5 ' 3@ >' 56 ' 4 2 1<' @ B 3 25 43' ' 8 D
> B> 35 @' ; 9' 564)' 7 64' 2%% > 8' 5625' 56 ' * 7 ' 62@' 34' <347A @? '
4%' 56 ' 8 8 4>52A 59' 4%' 56 ' 4 A)' 34>' 4%' % 5 > ' > 5> ; 5 43)' ? : 3'
56 8' 3' 56 ' 72 5 3? ' 4%' 4 ' 6 9' 62@' ; 456' @ 14: > @' 54'
56 8' 3' 56 ' 14: 3235' 7 56' ;>262 8)' 2 ' > 14>@ @' ; 9' 4 ' 23@'
CBA2 3 @' ; 9' 56 ' >4B6 5 ' 6 ' B4 5A)' 3' 6 '1431A 43)' 6256'
; 5 5 @' 56 ' 74>@' 2; ; 25 3)' %4>' 56 ' 74>@' $ 5)' @' 3' 6 '
B> 8 K' '56 ' 8 2>? 3KE' ; 5' ; 456' 2> ' B>4B >)' B 1 2AA9' 56 '
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2 @' : >' N)' 5' 6 7 56' 56 '325 > '4%' 5625' > 5' 7 6 16' > 82 3 56' 54'
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8 @ >?43)' 56 ' @23? > ' 56 9' 62: ' 12B @)' 23@' 56 ' 5 8 B525 43 '
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#4@' 54' 4> 6 B)' 56 9' 62AA)' 2 ' >' 4@@> @? ' 4; >:)' [' B2 ' 2'
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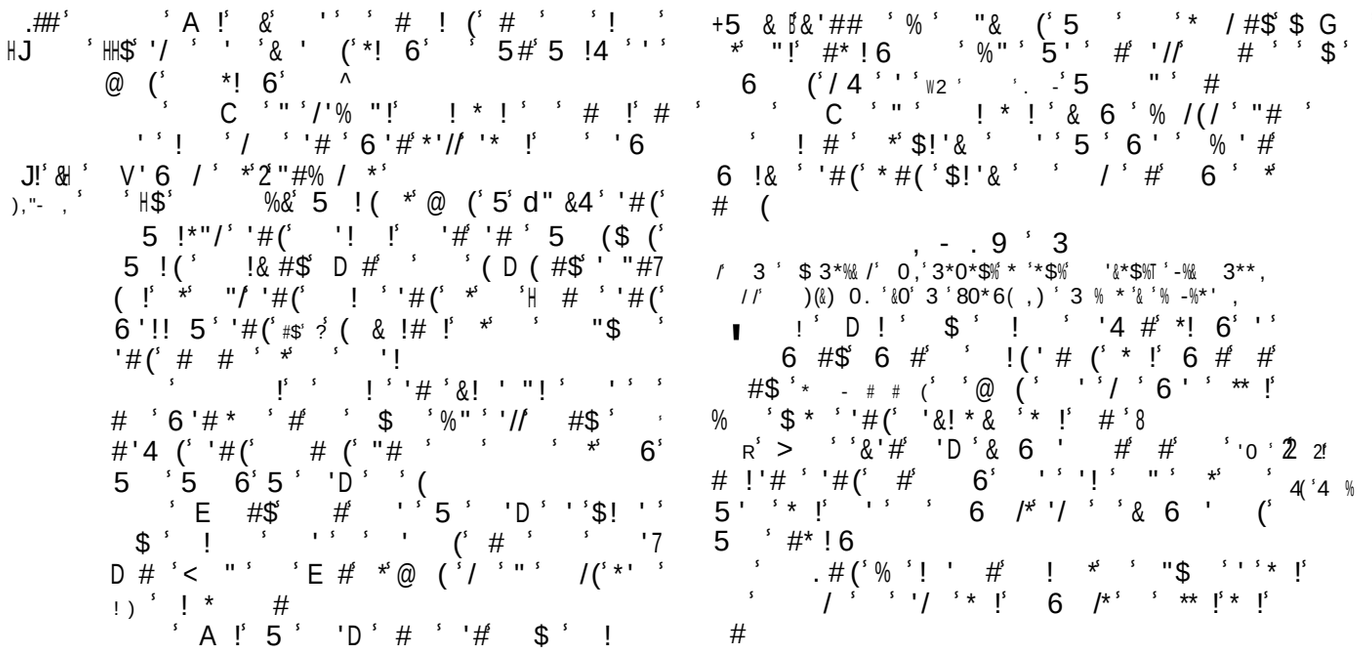

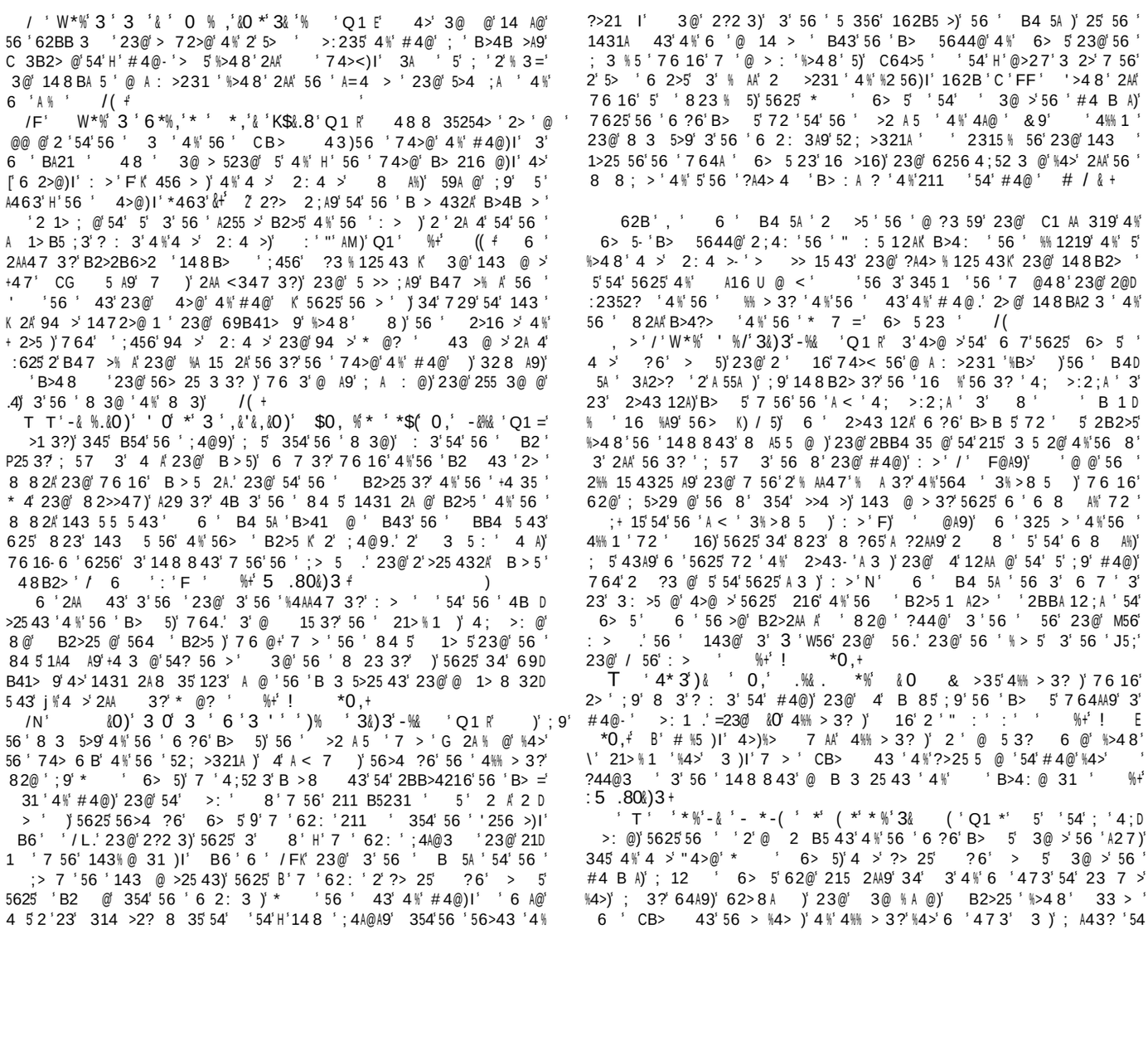

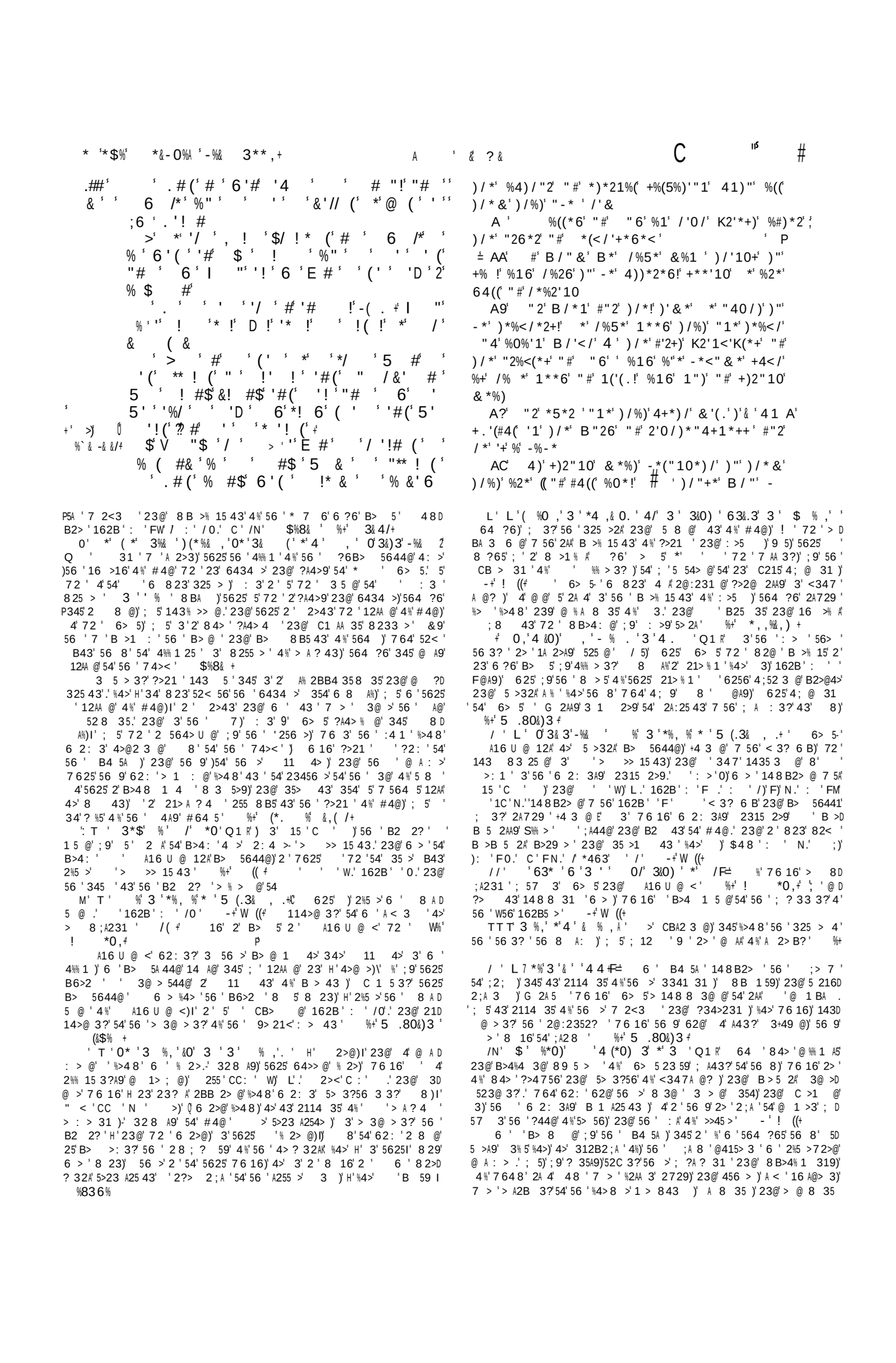

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' 3%& ' $'&' '-%& '. %' 3'%, %'* '5 (.3& , .' ' 0,' *' %' *%' M. ((0'3 0' 3'-%& '*' %*0T' *%, %+

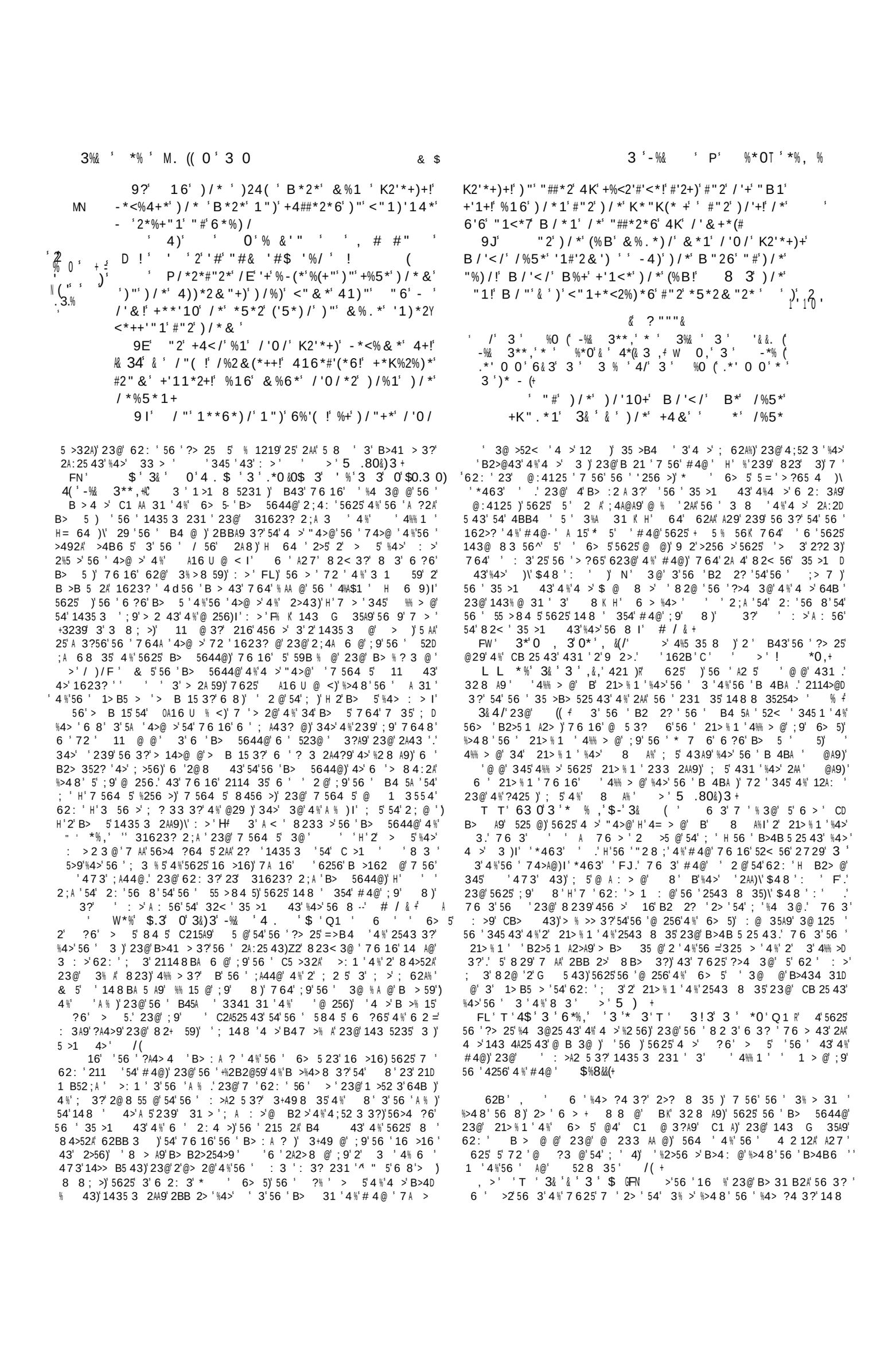
;' ')/'+' *(</'+*6*<!' .'10' "#' %(*&!' K2'*+)' "#')/*' &"+)'/'0/' "6!' B/"' &*)' -2%/%&'2*)421'10'#2"&')/*'+(%40/)*2' "#')/*'.'10+!' %16'-(*++*6'/'& 9' "'B/"&'%(+"' -2%/%&'0%5*' %')1)16'/*2*'&*1')/%)'6'*'2*<*'5*')'/*+' K%2)' "#'%((!'#'2+)'-*'10' -'1)*2K2*)%)'"1' M'10' "#'2'0/)*"4+1*++!' %16' %#)*2')/%)' %(+"' M'10' "#' %(*&!'B/'</'+!' M'10' "#'K*%<*' ')' 2' ?' ')/"4)'#%)/*2!'B')/"4)'&")/*2!')'B')/ "4)'6*+<*1)!' /%5'10' 1*')/*2!'-*0'11'10' "#' 6% +!' 1"2' *16' "#'('*' -4)'&%6*'('.*'41)"

)/*' "1' "#' "6' %-'6*)/;'%'=K2'*+)' <"1' Z$$$)'14%((' ! C' "B' <"1+'6*2'/"B'02*%)')/'+' &%1'T' 41)"' B/"&' *5*1')/*' K%)2'%#</' -2%/%&' 0%5*')/*')*1)/' "#')/*'+K"'(+! :' 16' 5*2'(')/*')/%)' %2*' "#')/*' +"1+ "#' *5'!'B/"'2*<*'5*')/*' "##'<*' "#')/*'K2'*+)' =/""6!' /%5*' %'7<" &%16&*1)')"')%.*')')/*+' "#')/*'K*"K(*' %<<"26'10')"')/*'(%B!')/%)' '+!' "#')/*'2'-2*)/2*1!')/"40/')/*' '<"&*' "4)' "#')/*('"'1+' "#' -2%/%&' ';' P ; E' 4)/*'B/"+*' '6*+<*1)'+' 1")'<"41)*6' 1"2!' #2"&')/*&' 2*<*'5*6')')/*+' "#' -2%/%&!' %16'-(*++*6'/'&')/%)'/%6')/*'K2"&'+*+ I' 16!B')/"4)'%((!<"1)2%6'<)'"1')/*'(*++' '+'-(*++*6'"#')/*'-*))*2! 9' "'B/"&'%(+"' -2%/%&'0%5*' %')J1)!16'/*2*'&*1')/%)'6'*'2*<*'5*')'/*+' -4)')/*2*'/*'%.&' 3' 3 ' "#'B/"&'#'+' B')1*++*6')/%)'/*'('5*)/' L' 16'%+' '&%'+"'+% !' *5'%(+"!'B/"' 2*<*'5*)/')')/*+!'K% *6')')/*+'1' -2%/%& A' "2'/*'B%+' *)'1')/*'("'1+' "#'/'+#%Y)/*2!'B/*1';' *(</'+*6*<'&*)'/'&

>)'62:' %A @'27 29'%>48'56' 1 > '4%'56' A27=A<'56' 8 27' A29 >'%>48'56' 2: 3? >' >\'5 .80&)3+ 6 >'2BB 2>' 54'; ' 23'2AA 43'6 >'54'56'15 '4%'C % ? ' 3@ >'56 'A27' %8& + ' 3&.3'3*-' 6'3 ' ' 0' 0.3*%'*' 3' *$(' Q1 R' - 6 16' 64B ' '54'56' 4 A)'2'23' 23164>'54'56' 6 B)'2' >'23@' 5 2@%2 5' 529'56 > 354' 3'2AA'56' 54>8 '23@'5 8B 5'4%'5 8B525 43.' 7 6 16' ' % >8 A9' B 516 @)' 345' ; A4 7' 43' 2>56)' ; 5' 2;4: ' 8' 6 2: 3)'56' 5> ' 4A9'4%' 4A)' 7 56 3'56' :2 A' -+' ! ((+ 'H ' ' 0' $ 'Q1 R' 6 ' 8 35 43'4%'56' 328 '4%'*=3 ' > D 8 3@' 56' B4 5A' 54' B 5' 23' 3@'54'56' @ ?> 43' 82@' %>48' 162B' ' /)'54'56' A2 5': > '4%'56' 56'162B5 >.' 23@' 82< ' 729' %4>'B>41 @ 3?' 7 56'56' ;+ 15'B>4B4 @' ; %4> '54' ;'5> 25 @'4%. ' 328 A9)'56' A16 U @ 42A'B> 564 '4%' 6> 5' %+' ((+

62B', "' 6' B4 5A' 6 7' 3'7625' > B 15'56'B> 5644@' 4%' 6> 5'> 8 ;A '5625'4%' A16 U @ <K'56 31' 3% > '56' @ ?3 59' 23@' C1 AA 31'4%' 5'2;4: '56' " : 5 12AK 23@' ;9'56' 1623? '4%'56' B> 5644@' @ 843 5>25 '56' B 3 43'4%'56' * 7 6' > A ? 43)' 23@'4%'56'4;A ?25 43'54'56'1 > 843 2A'A27' /(+ , >' ' W*%' 3&' 5 (.3& , .' Q1 *' 'e 3'C :' /WT F .'23@' 56'345 '56 > ' [' F'4 &0)'4/'&0 %-% &*0' b&0)'* '%)3 *$ 0 ' 625')';9' 72'2' ?3'4%'56 >' ;+ 15 43' *' 3'% : 5 12A'B> 5)'564 ?6'B>4D 35 >B> 525 43'4%'56' 74>@' 6=%U @ <' %+' 3&4/+ 3'231 35'5 8)' B 1 2AA9'28 43?'56' B 4BA@'764 '6 54>9' ' > 14>@ @' ;9' 4)'5 5' 72' 2A'54'? : ' 328 ' 54' B > 43' 23@' BA21 ' CB> : '4%'56 >' G 2A 5)'4>' 3'1488 84>25 43'4%' 48)' > 82><2;A' : 35 ' 3@' 5 '6 ?6A9'B>4;2;A)'5625'56 ' C1 AA 35' < 3?'23@'6 ' ;+ 15'@ > : @' 56'328 ' 76 16'56 9' ; 2>' 3'6 D 54>9'%>48'56 >' U=A'23@' 7 AA'<3473'162>215 > ' , 7 @' 3'56 ' A ?65)' 56' B4 5A-' 2>? 8 35'%>48'56' 328 ' '1431A :)'54' 6 7' 7A 25' 23' C1 AA 35' B > 43' A16 U @ <'72)'23@' 647'% 5'54' 6 '82@' 2'5+G '4%'56' 43'4%'#4@.' 764' 3'2AA 43'54'5625'59B ' 2'@ 1A2> @'54'9'A4: '>?65 4 3 '23@' 625'7 1< @3)I' 'CA: W.' 23@' 72'%4> 54A@' ;9' 2 26)' 3@ >'56'5 5A'4%'56'9' > 31'4%' 21)I' 'C' ' %+' 5 .80&)3&+ +' &3*$' 3 %'6&3*$' *3 %'6&3*$', . 0 ' >)'B @ D ?> 'K 43)'4%' 764 '%256 >)'4>' 8456 >)' 4>' B @ ?>)' 56 >' ' 34' 8 35 43' 3' 56' 32>>25 :'4%' # 3)'2';' 3?' 3@ @'4%'23456 >' >21)' 345'4%'5625' 76 16' '> 14>@ @' 3' 1> B5 > .' ': >'D+ 6 ' 345 ' 8'54' ;' 34' B> 5' ;9' @ 1 35)'2'56' " : 5 12A'B> 5' 7 > .' 3' 143 G 31'4%)'76 16'56 >' ? 3 2A4? '23@'B @ ?>)' ;456'43'56'%256 >-'23@'43'56'8456 >-' @)'7 > 'B> >:=' CD 215A9' %' ! *0,' 6' 8 23 3?')'5625' A16 U @ <'@ @'345

@ > : \'6 'B> 5644@'%>48'6 ' B2> 35)'6 5' 72' 82@'2'B> 5'4%' 56' 84 5' ?6'#4@';9'2'B2>5 1 A2>'2BB4 358 35' %+' 5 .80&)3+ 3 '&0)'0 &3%'4)&00&0)'* ', / F' '>48'76 16'6 'B> 5A9 4%% 1'72'54'148 8 31)'H'34>' 3@'4%'A %)I' 3'76 16' 5'5 >8 325 @' >)'2114>@ 3?'54'56'4>@ 32>9' 3 '4%' 35 >B> 5 >)'5625' 3' 1> BD 5 >'56 >' ' 3456 3?' 2@'4%'56' ; ? 33 3?'&!' 3@'4%'6 'A % ' %+' 3&4/+ 625' A16 U @ <'72'%? >25 : A9)' 6> 5'72' ' > =A9 ' > ' 16 U @ <'62@'H 3 56 >'; ? 33 3?'4%'@29 '34>' 3@'4%'A %)I' 3456 3?' ; 3?' > 14>@ @) 3' 1> B5 > '7 56'> ?2>@' 54' 6 ' ; >56' 4>' @ 256' ' 143 G 35A9'56 ' 43'4%'#4@'62@' 3' > 2A 59'H 3 56 >'; ? 38-3?'4%' , / '34>' 3@'4%'A % I' ' %+' *% &0+ ' 4&, 3' '-%& '. 0&0$ ((/<= 3'5625'56 > ' '34' 35 82D 5 43'? : 3'4%'239'5 8 '76 > 3'5625'4%% 1'4%'6 '1 2 G@' -+' ! ,+ 625')' 4)'764' '456 >7 ': >9'B 315 2A)'> 1 5 '3456 3?'4%)' 6 '@ 256)'4>' 11 4>'.' 23@'5625'345'7 564 5'2'8 9 5 >9.' ; 12 ' 6 '72'54' ; '2'59B '4%'56 '5> '23@'> 2A' : >A2 5 3?' ?6' > 5)' * ' 6> 5' -+'W ,+ 0'T' 3*$)3' 3 /'.* '4$' * ' 3 '(*&0 ' * ' 4% 3 ' 625')' 7 > '@ 1 3@ @'%>48' ;>2628'2'7 AA'2'56 9)'23@' 4' 3'2AA'456 >' > B 15'7 > '43'2'A : A'7 56'56 8' W/(' 6 >'B29 3?'4%'5 56 ' 1 @ 3?'%>48'56' 28' 541<'7 56'3& +' -'W ((+ ' $'3'63* ', . 0'&'0*'.*$0 ,'%* ' 3 0 ' A16 U @ <)' ::64'72'34'< 3'54' ;>2628')'34>'54'5625'B 4BA ' %+' ! *0,+ ' 0,'6&3*$' ((' .*0 % ,&. &*0' 3'('& ' 4(,'* ' 8'4 % 28 A9)' 3'2' 21 >@452A'; 3 @ 15 43'2 56 'B> 5'@4 3?' 5' 3' #4@-'\' 5 2@)'23@' ; 3?'12AA @' 54' @4' 5' ; 9' '2 564> 59)'162B' : ')'2'' 8 @ 254>' ; 57 3' ;456K' 23@' #4@' 8 A%' ;A 3?' 56 > B4>' 8 ; ' : 'FW)' 76 16' ;A 3?')&' '56 8'2'> ?65)'2' 5' 7 >)'5' 4;52 3' 2%5 >72>@ ' %>48' #4@' 56 >' B 5 5 43 ' -+'W ((+ ' 56' 345 '43' 8 ; ' : 'FW' 6 ' '2' 1A 2>'2>?8 35'5625' A16 U @ <'72 '2'?> 25 >'B > 4' 5623' ;>2628' %+' ! *0,+ ' &,'3 %' 0' 3 ',&'% . &' '&3 2'Q1 R' 3@' 3'56' '" : 5 A27'56 9'5625'> 1 : '5 56 '@)' 11 @)'23@'2>' 11 @ @'.'56' 11 43'4%'43' 2%5 >'56 '@ 256)'4%'23456 >' ' > 14>@ @' 3' 56' 1> B5 >)'23@' 4'56 >' @ 256' B 315 2AA9' 5' @4 7 3K' ; 5' 3'56' BA21 '4%'# 3 > ' A16 U @ <'6256'34'456 >' 8 35 43'82@'4%'6 3' ; 5'5625'6 'A : 56.' 34'< 3@'4%' 8 35 43'4%' 6 '@ 256' > ' ! ' *0,+ 3' 76 16' > B 15' 6 ' 8 29' ; ' 2@' 54' ; 2>' 48 ' > 32' 6A231 '54'56' : > A : 3?'23@' : > :A @' * ' ' %+' *, ,%&,)&)T' 1' 6 ' / '&0' 3 '(*&0 '* '3&' 3 %'Q1 R' 6 ' 8 ?65' ;



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C' "2' &' &' 1")' K"++'-(*')/%)')/*' -("6' "#'
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56 %9' 62@' 8 2@ ' %4>8 >' 2543 8 35' 1- +' ! ((' 0,' W ((+ A
H# T ' 3 % ' & ' % 4% 0. ') &0' , ' * ' &0 ' ' %/' / % C
B43' 56 ' ?> 25' 233 2A' @29' 4 %' CB 25 43)' 56 ' 6 ?6' B> 5' 14 8 8 D
84>25 ' 23@' @ BA4> ' 56 ' B2 5' >)' ; 456' 4 %' 5625)' 23@' 56 ' %4> ?4 3?'
9 2> .' 2' BA2 3' @ 8 43 5>25 43' 5625' 56 9' 7 > ' 345' B >% 15A9' 2543 @'
%4>' ; 9' 56 ' %4>8 >' 21> % 1 ' /(' '" : ' C: ' F/
N' W*%' & ' & ' 0*' -* &4(' 1 R' 6 > ' ' 34' %% 1219' 3' 56 ' ; A44@' 4 %'
2' ; > 5 ' 54' 1A 23 ' 27 29' 56 ' B > 5 2A' 3' 4 %' 2' 8 23' .' ' ; ' C.' J .'
$4 8 ' , ' /F)' / LK' 343)' ' 29)' 3' 16' 21> % 1 ' 143 @ > @' ; 9'
56 8 A:)' ; 5' 43A9' 59B 12AA9' 3' > A25 43 54' 56 ' 21> % 1 ' 4 %' 6> 5.'
56 9' ; 3?' 3 5 5 ' 16 %A9' %4>' A ?2A' 3)' 2 ' 12 2A' 31A 233 '
4 %' 56 ' ; 4@9)' Q1 ' ; ' C ' / .' 345' %4>' 3)' B>4B >A9' 4' 12AA @K 4>)'
%' %4>' 8 4>)' C5 3@ 3?' B 1 2AA9' 54' 3 ' 4 %' ?34>231 ' 23@' 3 % > 8 59.'
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>+' 3 % *% ' 63 0' 3 '.* 3' &0 *' 3 ' *%(, C 2 8 A9)' ' 764'
72 ' 54' 52< ' 27 29' 56 ' 3 ' 56 > 4% ' 6 ' > % > 31 ' ' 54' 56 ' N 56'
2A 8)' : >' M)' W.' >? @' ; 9' 56 ' B4 5A)' 2 ' 2A)' 2114>@ 3?' 54' 56 ' '
B5 2? 8 5' : > 43)' 3' 564 ' 5 8 ' ; 5' <347 3' 54' 56 ' * 7 ' -+'
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4$' ' 4*,/' 3 ' 3*$' -% - % ,' G ' & 5' 64 ' 62 5' B >D
432AA9' @ @' 5 ' 54' 569' B >% 15' 23@' 35 > ' >: 1)' ; 456' 3' @4D
3?' 23@' Q> 3?.' 23@' 56 > ; 9' 2>5' > 1431 A @' 54' 56 ' 74>A@' -+'
! ((+ 3?' 56 ' 43' 4 %' # 4@)' ; 9' ; 3?' 8 2@' %A 6)' 544<' 43' 8 '
56 ' %4>8 ' 4 %' 2' A2:)' 4>' 4 ; @ 35' >:235)' 6 A ' ' 56 ' CB> 43 '
H' 64 ' 62 5' B> B2> @' ' 2' ; 4@9)I' ' G :2A 35' 54' H' 3 ' 2> '
62 5' 64 ' 4B 3 @)I' 23@' ; 456' B6>2 ' ?3 %9 ' 64 ' 62 5' 82@' '
56 3 ' 4 ; @ 35' >:235' 6 ' > 1431 A 25 43' 4 %' 56 ' B2 2? ' 6 >)'
23@' 3' 56 ' 2A 8)' ' %4 3@ @' 43' 56 ' 231 35' B6>2 4A4?9)' 3'
7 6 16' A2: ' 7 > ' ; 456' ; 9' * 7 ' 23@ 6 256 3 ' 12AA @' [' ; 4@)-'
; 12 ' 56 9' 7 > ' 8 BA 1 5A9' @ > 15 @' ; 9' 56 ' 7 AA' 4 %' 56 >' 8 2 5 >)'
2 ' 56 ' ; 4@9' ' @ > 15 @' ; 9' 56 ' 8 3@' ' '+ C: ' / ' 6 '
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L)' Z' 4*' ' 63 0' 3 ' &, ' X.+' 6 3' ' 62@' 2@' ; %4>)'
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A "s+0 0"s sF +s+s* -s

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_s 's)/*'B/'</'14((s B*s %2Ks +%1<)'#'*6!s
)/2"40/')/*s "##*2'10s K#')/*s -"6 '"#s 3*+4+s
= /2'+)s "1<*$P2s (
*'A' 3@' :>9'B> 5s 523@ 56'@2 A9'8 3D
5 > 3?'23@'4 Q>3?'4%5 35 8 '56 ' 68)'
21>%1)s 76 16)s 123'3 : >' 52< ' 2729'
3 Ks P
'& 5'56 ' 823)s 2%5 >'6 '62@'4%% > @'43 '
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1&'*+s -*s &%6*/'+s#"")+)""('s 8 2Cs 7
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A:s 3 % Ks=3s "(s /"+)s %(+"s'+s%s B')Y
1*++s)"s4+s'#"2s%#)*2s)/%)s/*s /%6s+%'6s -*#"2*!
AEs /'+s B')/*s<"5*1%1)s)/%)s 's B'((s &%.*s
B')/')/*&s %#)*2s)/"+*s6% +!s +%')/')/*s "26!
As B'((s FK4)s & s(%B+s '1)"s)/*'2s /*%2)+!s %16s 73*2+'!s
'Ks)/*'2s & '16+s B'((s 's B2')*s)/*&l
16s')/*'#s +'1+s %16s '1'V4')'*+s B'((s 3s
2*'K*&-*2s 1Ks &K2*P
APs "B s B/*2*s 2*&'++'"1s "#s #/*+*s 7:!s
3 % s&s 1"s &"2*s "##*2'10s #"2s +'1
ÚALs %5'10s)/*2*#"2*!s -'*)/2*1!s s -"(6 s '!s
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[%' 6 3' 2@' 2%5 >=:2>@)' 7 @ A9' 3' 562' 56=9 >)]' 9'" 2' '
'148)' Q1 I' 3&4/#)
6 ' B4 5A)'2 = ' 3'56 '574': >)'56255'56 ' 74>@ '2>'2'
BA2 3)'@ 1A2>25 42'4A-'56?' 55 >' 3 %%1 319'4%'5A '* 7 6' 21>%1 .'
76 3' 6> 5'B 5 ' '473)' %% > '23@' 21>%1 '54' BB%9'56 >'
@ % 15 ' 3@'69'@4 3?'%A '43=' '2;>4?25 '2AA'% >56 >' '4%'
56 '456 >' /8' A
/ ' /'3'65.3' "'6 '%' 0 /&,' &.(= ';9'56)'?>21 D
4 '7 AA)'4%'#4@)',%6 G6' 6 2 %' 54'B >%4>8' 3 56 ';4@9)'76 16
#4@'B> B2> @'%4>' + 69'4%% > 3?'5A 25';4@9'431 '%4>'2AA))'23@'345'
;9)'5A 4 'A ?2A)' 2G Q1 '76 16'7 >'4%5 3' > B 25 @)'2AA'4 >' 3'
2>' CB 25 @)'23@'7 '>1 :@' 354'#4@-'%2:4 >)'2'8239'4%' '2)'
;9'B >%4>8 3?'56 '143@5 43'4%' 31 >'4; @ 31 ' 5AA'> G > @'4%'
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56 ' %% > 3? '4%' 63=)' %+s ! *0,'P
' 0,'' '*T/+-%& I≠ 625')' :>9'456 >'B> 5' H' 523@'
561' -4BB4 @'5G)'H 55 3?)'@B73I' 3'56 '3 C5': > K'56 'A255 >'
;3?' B4< 3)'4%' 3G)'764'62@'%3 6 @' '4%% >3?'23@' '74><'
-'W ((+s 9' 2A9)I'5625')'43' :>9'@29' 4%' CB 25 43 ' 5' 2BD
B 2>'5625'56 ' B4 5A '1435 3 '54'@ 14 > '4%'56 '233 2A' 21>D
%1)'4%% > @';9'5Q'6 ?6'B>G 5' 3'56 '64A9'4%'64A .'7 56'76 16'
3' 6';?33 3?'4%'56 '162B5 >'6 '62@'148B2> @'56 '4%% >3?)'4%'
6> 5' '1A=B':)'FW' b / &*+
' % %s' ' %' ',*60s'*0s 3'%&)3'3 0,'*' * ,2' :>'
84>'54' 523@ 23@K' 8 3 5 >'2 ' 6256'@43)';5'23 7 >3?'56 '
?> 25' 162>215 >' 627 3' 3'56 ' >4B6 5'V 162> 26)'162B':' /)'4%'
2' > 5'43'2'56>G2)'76 >'>492A'@ ?3 59'23@'1 >52 3'143G 5'2>'
2@@ @'54' '45A >'?A4> ' %+s *,,%&,) +
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16'2'4; 9'56 '#4 B A)'23@' 4'; 143 ' 35 5A @'54'56 ';3 %5)4%'
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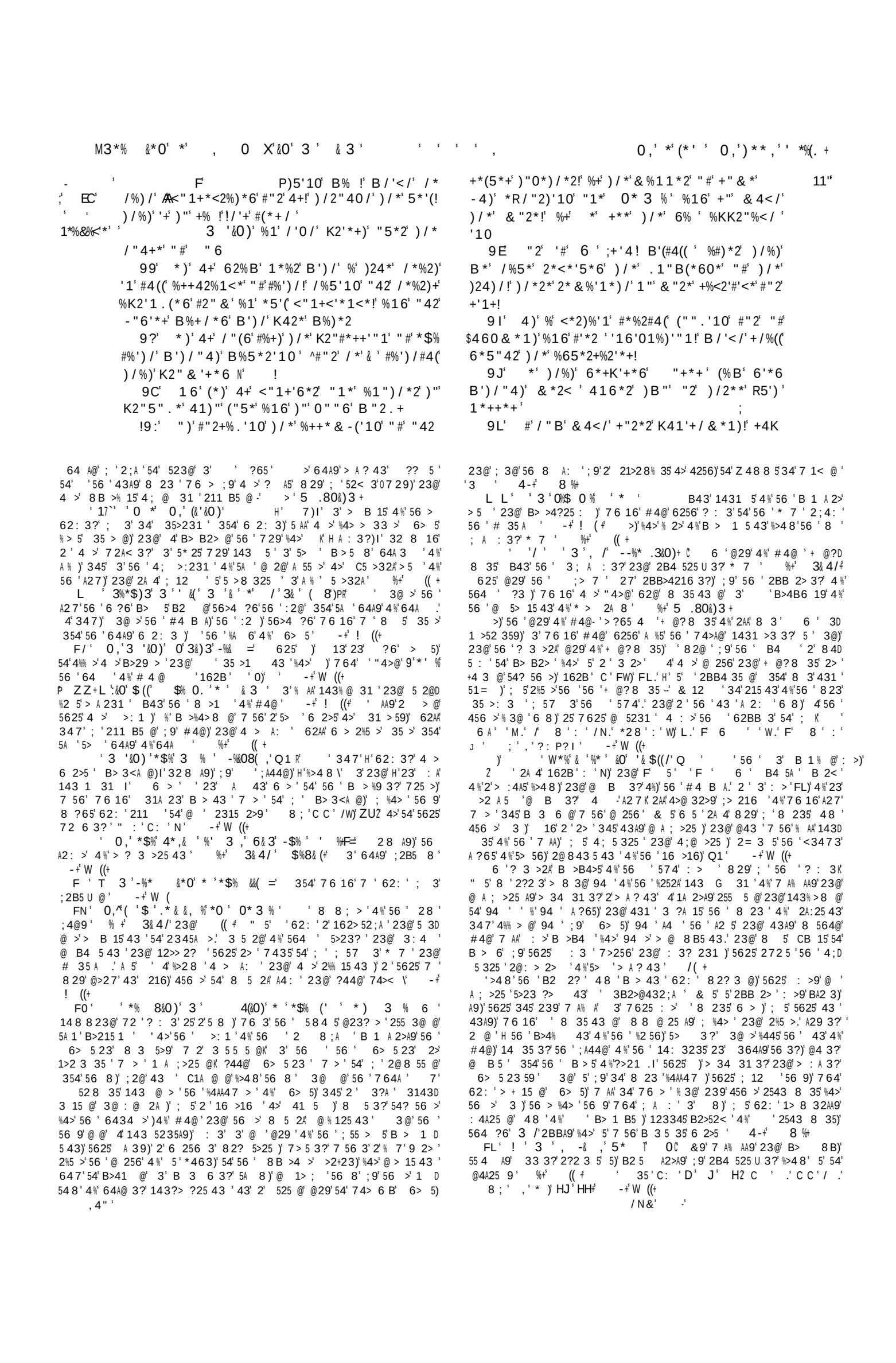
6 ' B4 5A '6 >;9'?: ' '54' 3@ >523@)'5625'4 >' ?6'> 5)'
;9'56 '4B '4;A25 43'4%' +8 A%'431 '4%% > @)'72 '2'148BA 5 'B>4 '
B 5 25 G3)'4>)'625;'B2@G' %%1 35' 25 %215 43' %4>)'56 ' 3'4%'56 '
764A'74>A@'.' 4'5625'7 '3 @)'34'456 >' 21>%1';'5'5625)'76 > ;9'
54'4;52 3'56 '>8 43)'4%'4 >' 3)'23@'54'82< '>1431 A 25 43'%4>'
3 ' -+s ' %&,) +
/0T ' L *%s (%'3 '3'3 ,' &,'4 *% ' 3& '& ' 3'.*' 0 0'
Q1 =' '4>'2%5 >' '62@'B> 8 @)'2''56 '%>5'56 3?'B>48 @ 3'
'14: 3235)'5A '7>5 3?'4%' 'A27)'43'56 >'6 2>5'23@'8 3@)'
Q .' '%4 3' 21@)'2?'2' 143@'B2>5' B%' '14: 3235)'56 '%> '
B2>@43'4%'26)'%4 ' 3'23@'5>23=>1 4 '4%'5A >'%4>8 >'A% ' %+s
! *0,+
/L' T'3%'&'0*s *%'* %&0)'*%+s &0=6 ';3?'@43'431'
%4>'2AA))'56 >' '34'3 @'4%'239'% >56 >' 21>%1 '4>'* @2 12A'46'
>:231)'%4>'76 16'56'* 7)'23@' 48 '4%'56 '* 7 6' 6> D
523)'4'U 2A4 A9'1435 3@' %+s ! *0,' /(≠ '>48'56 '23@'
8239'456 >'B2 2?'4%'56 ' B 5A)'56 ' 21>%1 '4%'%4 '82)'2'
5' '12AA @)'@ 1A2> @' ;9'56 '14331 A'4%' > 35'5B';'[2'5> '23@'
B>4B >'B>4B 5 254>9' 21>%1 '%4>' &)' ' 55 >A9'4: >56>473' 29)

5' '23' : @ 35' 8 B 59)'2 ' 5' B>41 @ ' B43'56 ' BB4 5 43)'5625'
56 '4%% > 3?4%'56 ';4@9'4%' 6> 5'431 ' '345' %%1 35'54'B>41 > '
56 'B2>@43'4%' 3)K; 5'8 5';'%> G 35A9'>B 25 @' % +s 3&4/'
23@'5 .80&)3+
6 3'7 '143 @ >'647'% AA' 23@' 5>43?'56 ' : >2A'B2 2? '4%'
56 ' B 5A ' 2> '2?2 3 5'56 '@415> 3 '4%'56 '$4823 5)' 5' '62>@'
54'2114 35'%4>'56 >'> 1 : 3?' 5'2 '2'B2>5'4%' 1> B5 >)'23@'56 >'
5 216 3?' *'1435>2>9'54' 5'2 ' %' 5' 7 > '34'B2>5'4%'Q> B5 > ' 3@'
%' 5' 2 A'62@'%4> 3' 7625'56 9'62: ' 31 '52 ?65'1431 >3 3?'
56 ' 21>%1 '4%'56 '82)'56 ' B 5A '74 A@'62: ' 8 @'345' 84> '
7>55 3'54'56 ' ;> 7)'5623' 7>55 3' 2?2 3 5'56 '$4823 ' 3@'
%'56 '@415> 3 '4%'56 ' 21>%1 '4%' 6> 5' 3'56 '@2 A9'82 '4%'56 '
16 >16'4%'$48 ';' 4'4BB4 5'54' 1> B5 >)' 7625' 8 5'7 '5 3<'
O %'7625'56 9'% >56 >'5 216'43' 56 ' 2>5 1A)'5625' 6> 5)'76 3' '
%>5' 3 5 5 5 @'56 ' 21>28 35)'@ @'56 3'4%% >' B' 8 A%)';456' '
;4@9'23@';A44@'54'#4@'56 ''256 >)';9'729'4%' 21>%1 '%4>' 3'
6 ' '7625'56 '14 31 A'4%' > 35)'23@'456 >'B4B 6'14 31 A)'2 D
>5' & 5' '5'B4 ;A '%4>'239' >4 '823'54'56 3<)'5625'76 3'
6> 5';A @'56 ';>2@'23@'56 '1 B)'23@'?2:'56 8'54' '@ D
1 BA)' '@ @'56 3' 21>%1' 8 A%'^ 23@' %' '@ @)'8 29'5'345'
;'2 <@)'769'56 3'@ @' '2%5 >72>@ ' 3@ >?4'5625'B2 3% A' ?34D
8 3 4 '@ 256' B43'%4 '1>4 '^ 625' '431 '@ @)' '@ @'4%'2'
1 >52 3'8 4 5' %% 15 2AA9)'AA4 A@' '@4'8 4>)'56 3)';9' ' 21>%1 '
25' '1> 1%C 43)'5623' '@ @';9' ' 21>%1 '25'5A ' 3 5 5 43^'
5' '@ %1 A5'54';A :' 16'2; >@5)'23@'8 16'84>' 4'54'@ D
% 3@'56 8K; 5'56 '$4823 5)';3?' '272>'5625'56 9'123345'
B> 5 3@'54'@4'84>' 3'56 >' 162> 5)'5623' 6> 5',&,'&0'!& '2>'
%4>1 @'54'14 35 3231 '43 '%2A 644@';9'2 >5 3?'23456 >' -+s
%.+
6 4@4>5)'764'62 '@ :@ @'56 ' B 5A ' 354'56> ' 15 43)'
3@'56 ' 143@' 15 43'7 56'56 ':> ' :>9'B>4B >A9)'2' 5' '56 '
1431A 43'4%'56 '@415> 32A'B2>5'4%'5A ' B 5A ' %+s 5 .80&)3+
' T'*^ 0 %N 47' 7 56'4 >'B>29 >)'23@'6 >2%5 >' 7 56'
4 >'B>43)'H' 354'56 '64A 5)\'328 A9)'56 '6 2: 3A9' 2315 8 9)'4>'
56 'B> 31 '4%'#4@' 3'6 2: 3' -+s W ((+
L%LF's 4/' 3'4(**,'* ' $ N 256)' 143 @ > @' 2 '56 ' 729'
76%46' A 2@ 56' ' 354'56 'B> 31 '4%'#4@' 3% 3 5 A9' 64A9)'54'
7648'7 '8 5'?: '23'2114 35'4%'2AA'4 >'215 43)'74 A@';': >9'
5 >> ;A '54' ' 3@ @'@ @'7 '+45'<347'5625'*)';9' 6 @@ 3?'
';A44@)'6256 B>41 > @'56 'B2>@43'4%'4 >' 3 ' '4>'54' '5a '
74>@'4%' @@ 43)'' '8 5'143% '5625' '56 3<'56 >' '34' 16 8 '
4%'> A?43)'; @ '5625'4%' 6> 523 59)'76 16'123'B4 ;A9' BB4>5
%4 '84 5':>5 4 'B > 43' 3@ >'56 '5A 4 ?65)' 56 '564 ?65'4%'56 '
+ @?8 35'E " 5'2'8 23-'3341 31';'7625'5'7 AA)'A 5'6 ':>5 '
> '54'56 '6 ?6 5'B 516'4%'B >% 15 43'2552 32;A' 3'56 'A%)'%4 >'
7 3';' 5 AA' 3'6 8' B'8 239' 1> 5' 3)' 4'8 239'6 823'%>2 A5)'
4'8 239'4%% 31 '4%' ?34>231)'B2 43)'23@'B> + @ 1)' 4'8 239'
3?:7>@ @'74>@ '23@'564 ?65)'23@' 3' 64>5' 4'8 239'@ % 15 ' 3'
6 ';' 5'215 43)'5A>25)'7 564 5'56 '2@:2352?'4%' 16'23' CB 25 43'
23@'2543 8 35' 2' AA> 5 23 59'62 '> : 2A @'54')'5' '8 B4 ;A'
5625'6 ' 64 A@' ;'1A 2> @)';%4>'6 ' 4: > ?3'* @?=' 4>'5625'6



' 4)' B*' %2*' 1")' "#') / * &' B / "' 62%B' -%<.' 41)"' K*26')'"1' ' -4)' "#') / * &') / %)' - *Y ('*5*') "') / *' +%5'10' "#') / *' +"4(

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C' '#%') / ' -*(' "##*2*6' 41)"' "6' %' &"2*' *R<*((*1)' +%<2'#'<*') / %1' %'1!' - ' B / '</' / *

"-)%'1*6' B')1*++') / %)' / *' B%+' 2'0 /)*"4+!' - ' $ "6')*+)'# '10' "#' / '+' 0'#)+' ' %16' - ' ')' / *' EC' -*'10' 6*%6' b' *)' +K#*%.*) / ' ' % 2! '7 :' '#%') / ' 1"</' B%+')2%1+(%)*6') / %)' / *' P ' +/"4(6' 1")' +**' 6*%) / ' ' %16' B%+' 1")' #"416!' -*<%4+*' "6' / %6')2%1+(%)*6' / '1) ' #"#' -*Y #"2*' / '+')2%1+(%)'"1' / *' / %6') / '+')*+)'&"1 !') / %)' / *' K(*%+*6' "6

M' & 5' 7 564 5' %2 56' & ' & ' 8B4 ;A ' 54' BA 2 ' 3& G' %4>' 6 ' 5625' 148 56' 54' #4@' 8 5' ; A : ' 5625' 6 ')' 23@' 3 ' 6 ' ' 2' > 72>@ >' 4%' 56 8' 5625' @ A ? 35A9' <' 6 8

I ' '#%') / ' "% / !' -*'10' B%21*6' "#' "6 "#') / '10+' 1")' +**1' %+' *)!' ' & "5*6' B6) / '' 2' #*%2!' K2*K%2*6' %1' %2.') "') / *' +%5'10' "#' / '+' / "4+*' - ') / *' B / '</' / *' <"16*&1*6') / *' B"2(6!' %16' -*<%&*' / *'2' "#') / *' 2'0 /)*"4+Y 1*++' B / '</' '+' - '#%') /

A22AA' 7 ' 72 6' 23@' ; ' 1A 23)' \ %' 345' 3' 56 ' %4 352 3' 4%' 6> 5- ' ;A44@'^ ' 143@ 1 3@ @' 54'@ ' Q>' 4 >' 3 .' 23@' B43' ' @ 256' 7 ' 829' ; A@' 56 ' > 5' 64B ' 4%' B2>@43' 23@' 211 B5231 ' & 5' %' 7 ' 3 ?A 15' 4' ?> 25' 2A:25 43)' 7625' %2>56 >' 21> % 1 ' %4>' 3' > ' 82 3 56' 54' ' ' 3 % ' 123' ; ' 34' ?> 257 K' 56 > ' ' 34' 456 >' 3@' %' 56 ' ; ' 235 3?' 54' 2: >5' %>4 8 ' 56 ' : 3 ' : 3? 231)' 7625' 62: ' 7 ' 54' CB 15' ; 5' 56 '+ @?8 35' 4%' 23' 3> 1431 A @' #4@)' 23@' 5625' % >9' 3@ ?325 43' 7 6 ' 62AA' 84 5' 2 > @A9' @ :4 >' 56 ' 2@D : > 2> ' 4%' 56 ' 5> 56' ^ # / & +

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)*1*) / !' %16' +<"420*) / ' *5*2 ' +"1' B / "&' / *'
2*<*'5*) /
I' #' *' *1642*' </%+)*1'10!' "6' 6*%(*) / '
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B / *2*"#'%((' %2*' K%2)%.*2+!') / *1' %2*' *' -%+Y
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L' 42)-*2&"2*' B*' / %5*' / %6' #%) / *2+' "#' //7//////
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2*5*2*1<*' +/%((' B*' 1")' ;&4</' 2%) / *2'
-*' '1' +4-$*<)'"1' 41)"') / *' %) / *2' "#'+K'2')+!'
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A ' "2') / *' 5*2'('#"2' %'#*B' 6% +' </%+Y
)*1*6' $ ' %#)*2') / *'2' "B1' K(*%+42*' -4)' / *'
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AA' "B' 1"' </%+)*1'10' #"2') / *' K2*+*1)'
+**&*) / ')"' -*'$" "4+!' -4)' 02'*5"4+' 1*5*2Y
) / *(*++' %#)*2B%26')' '*(6*) / ') / *' K*%<*%-(*'
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A9' / *2*#"2*' ('#)' 4K') / *' / %16+' B / '</'
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A?' 16' &%.*')(+)2%'0 /)' K%) / +' #"2' "42' ' %' ' O+'
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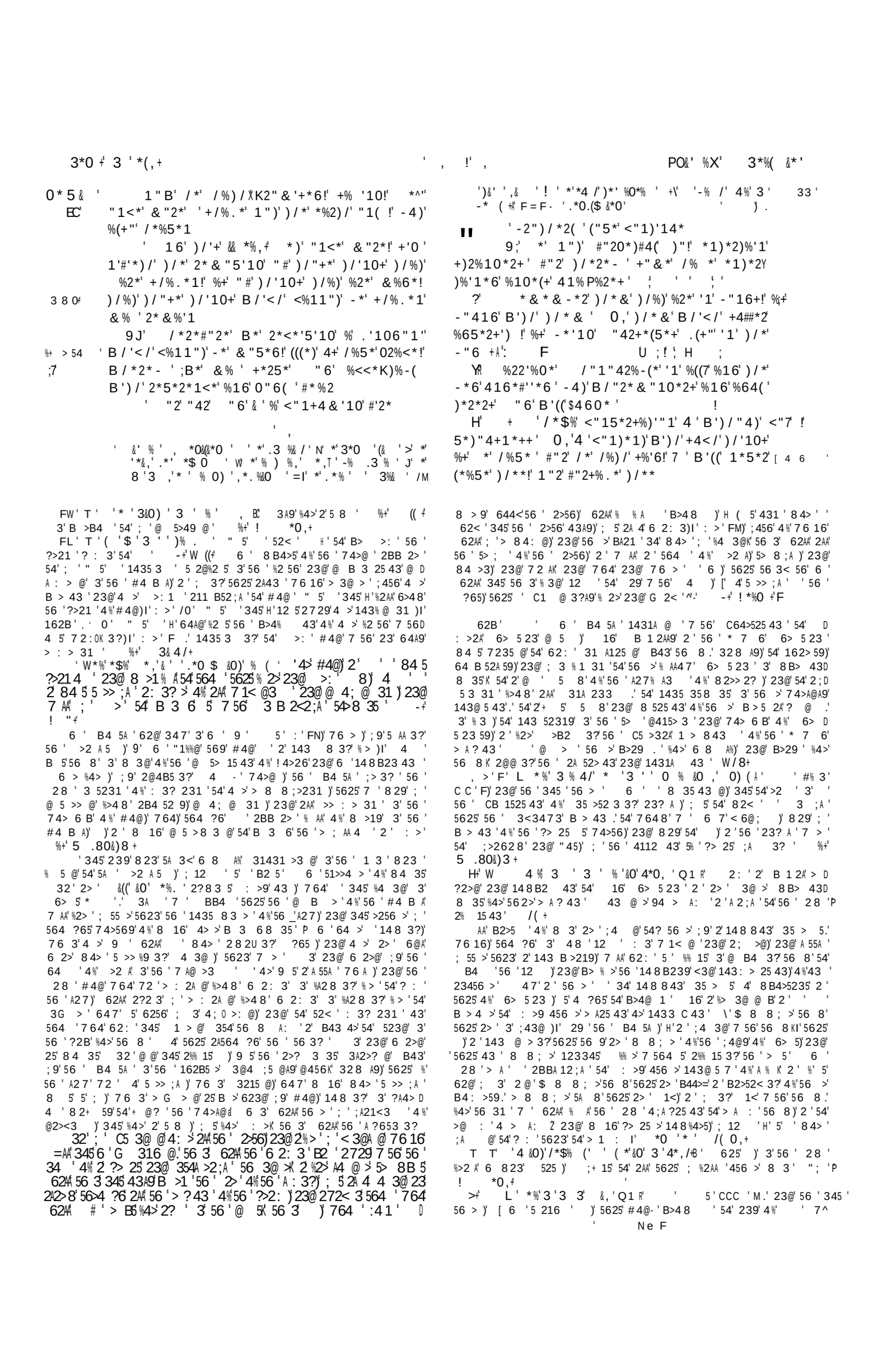

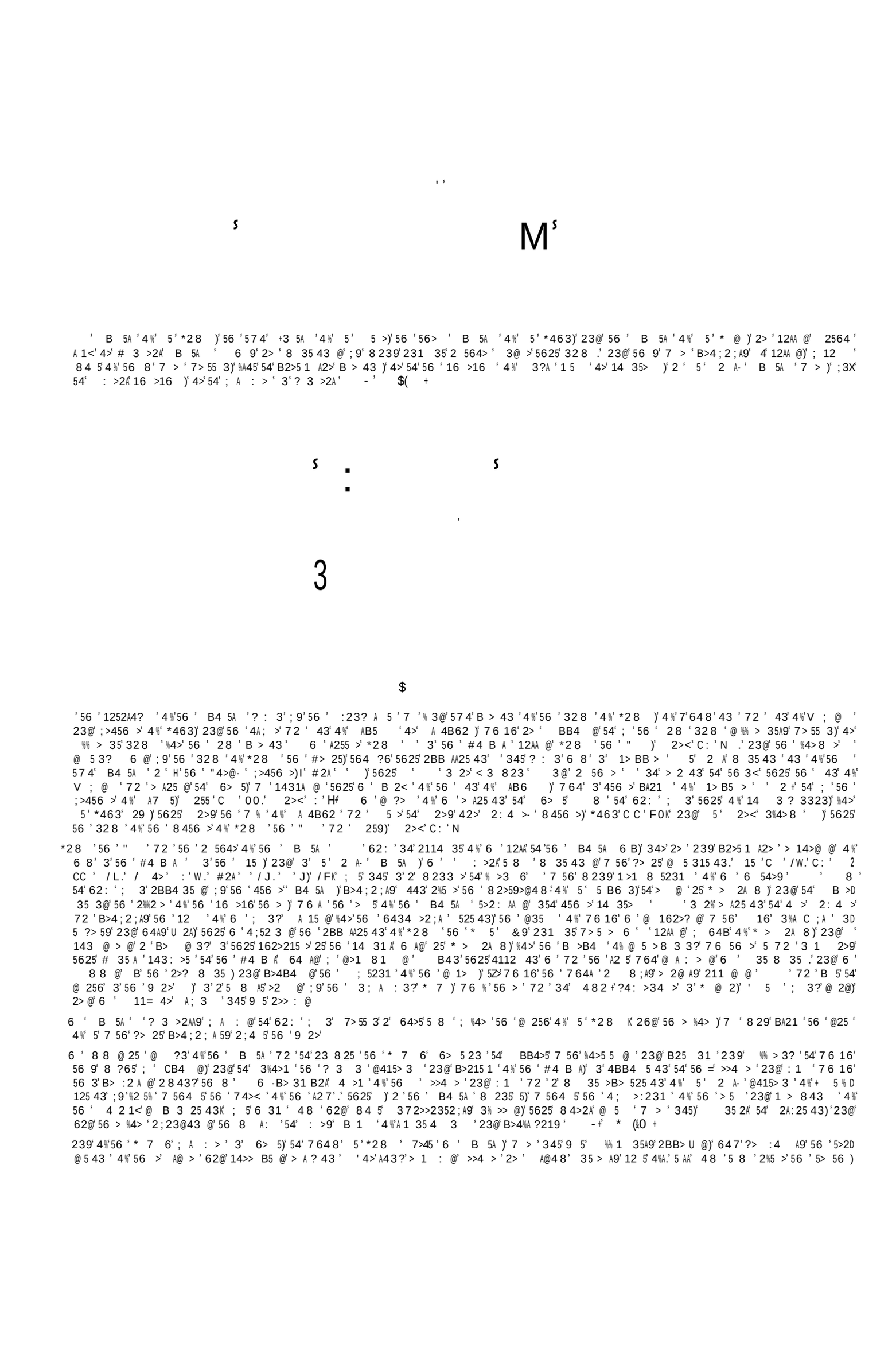

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F) T ' &0 *' ,&' % ' - &*0 2C [8 B525 43)-' 256' 1 8 ' 3)' [2> ' 4%' 57 4' < 3@ K' / 5)' 16' 2 ' A 2@' 54' ,3)' 76 16 56 ' A 5 ' 4%' 56 ' %A 6' 23@' 56 ' A4 : ' 4%' > 16 ' B>4@ 1 ' 3')' 8 ' : ' J .' 2?2 3 5' 56 ' 4 >' " 4>@' 3 5> 15 ' ' 54' B>29)' 5625' 7 ' 35 >' 345' 354' 56 8)' 23@' 4%' 56 ' 56 ' B4 5A ' ; ? 3 ' 54' @ 14 >)' : >' / K' F@A9)' 16' 2 ' 2> ' 35' %4>' 56 ' 5> 2A' 4%' 4 >' 143 52319' 23@' 31 > 59' 3' 56 .' 23@' 54' 4 >' B25 31 ' 23@' B > : >231 ' 3@ >' 56 ' ' B>48 @' 2')?> 25' > 72>@' 3' 6 2 : 3K' 23@' 4%' 56 ' 56 ' B4 5A ' B 2< ' 6 > ' 23@' : >' /F ' ' " < ' C> ' FL.' ; ' : ' /=' % ' 3& 4/+

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?' M1"B'10' 3& ') / %)') / *')2 '10' "#' "42' #%') / ' B"2 . *) / ' K%)'*1<*

YO 4)' (*)' K%)'*1<*' / %5*' 3 %' K*2#*<)' B"2 . !

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N)' $' (' - & 0. ' 3 ' ' 3 %' - % . ' 6 *%8 C " 5' 345' 94 >' B25 3G ' 6> 3<' 23@' %2 A)' ; 5' A 5' 5' 64A@' % > 8' 23@' 143 5235' 354' 56 ' 3@' -+' ! ((+

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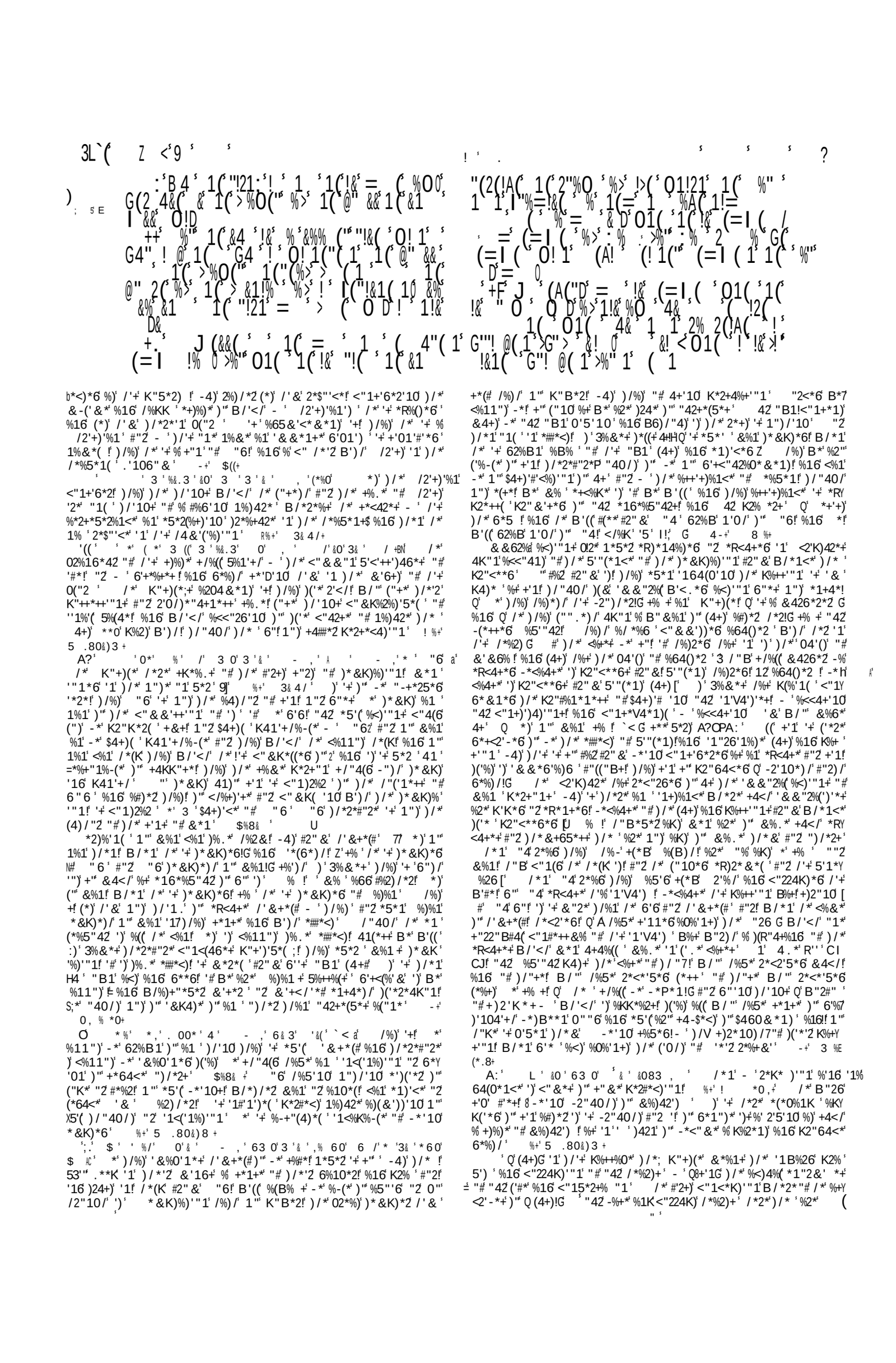

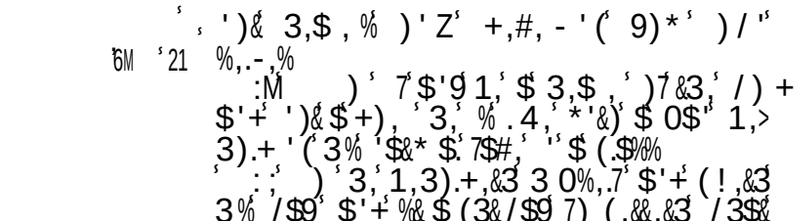

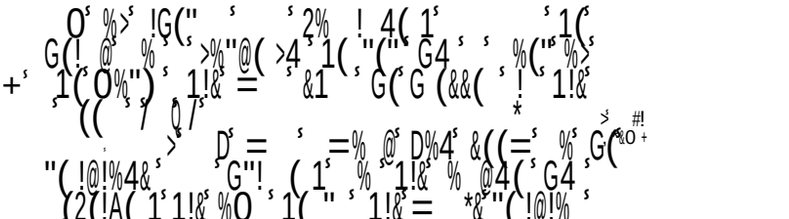

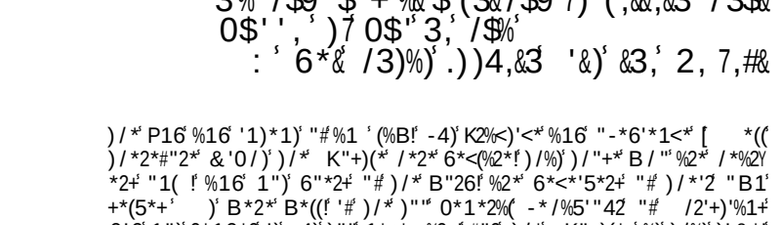

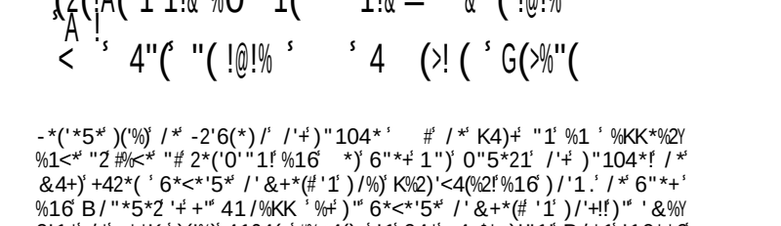

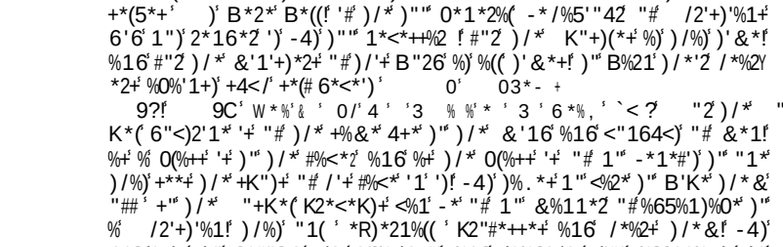

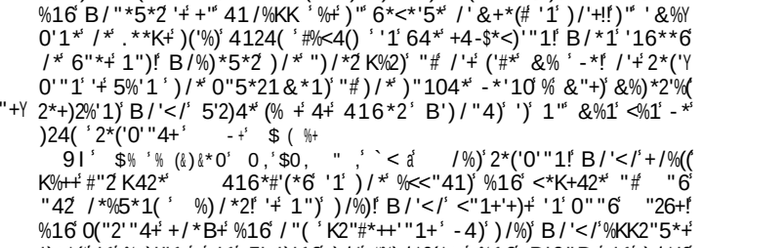

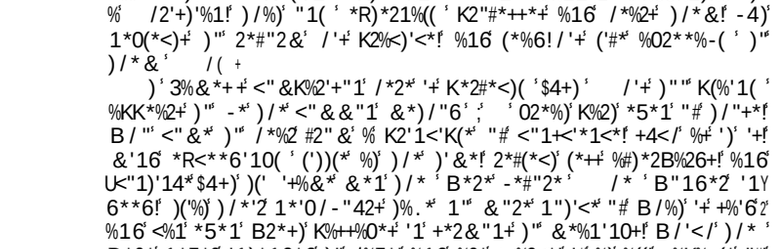

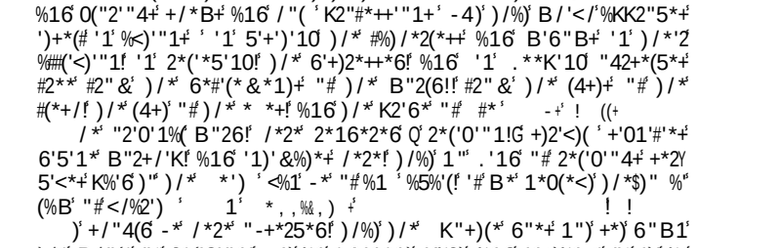

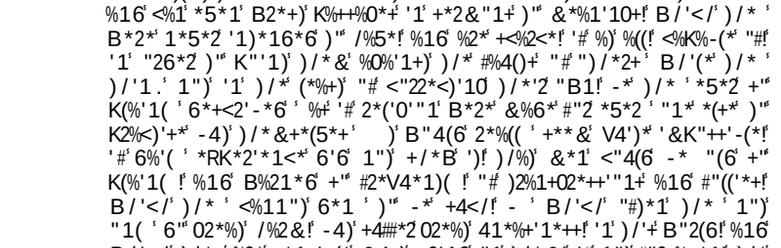

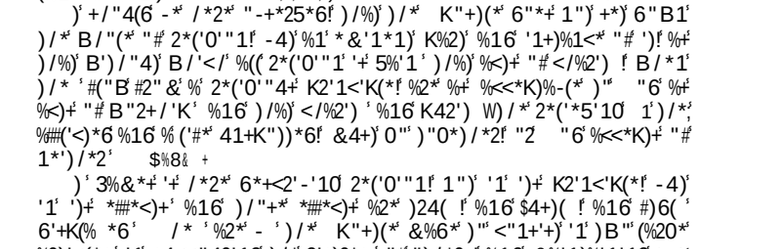

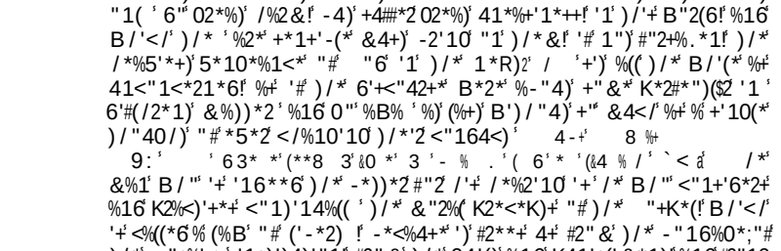

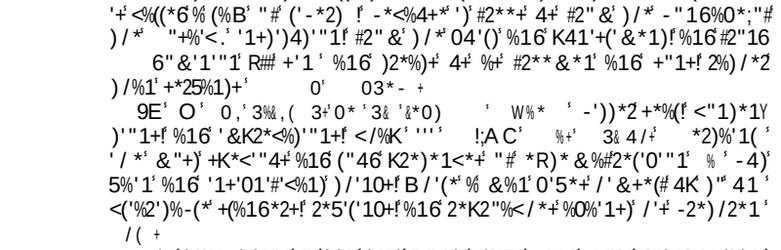

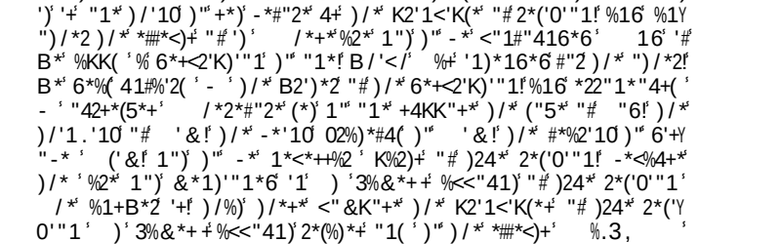

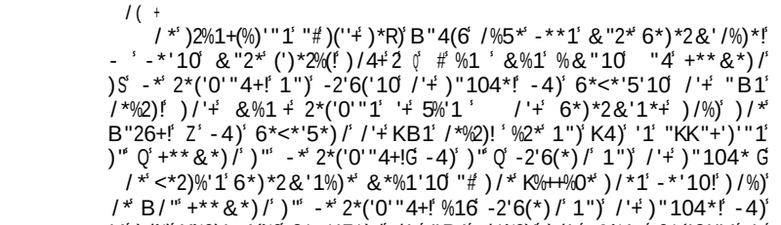

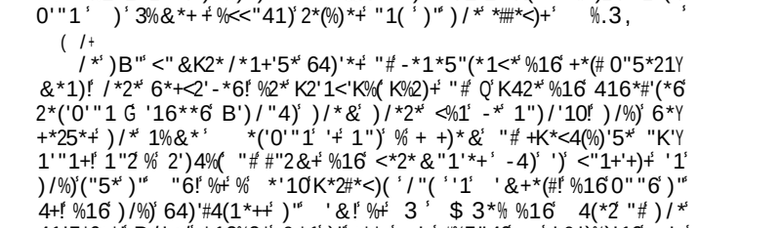

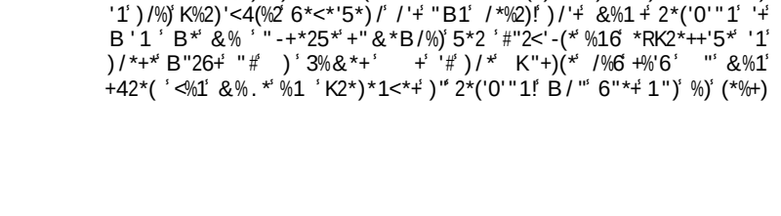

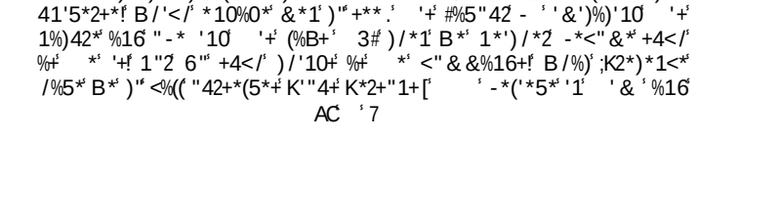

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A27

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5' 4>< ' ^' 123' %2 56' 2: ' 6 8' ^
' %' ' ' %! !' !' E !' % ' %' 4 (' '#(
(" ' *' (' / ' * ('
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&"+)' *R<*((*1)f' %16' 0"5*21+' %16' &"6*2%)*+' %((' ")/*2+' 2

L' O' 0,' % '.*0'&0. ,'* '3'(' ' % 0)% *% ' Q' 2*' <"1Y
5'<)*6' Z- ') /*' (%B' %83$% +' %&*(!' - ' "6;+(%B' '1') /*
0*1*2%(') /'+(%B' "&K2*/*16'10'%(( ) /*64)'*+"#') /*+*<"16')%-(*f
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' L 3 '& ') $&(/'* ' "+ ' "2') /*K-*6'*1<*')'" "6 +'B'(('+
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)')' 1")' -' +4KK"+*6f') /%)' "6' B'((%<<*K)' % K%2)' "# B/%)' B*'
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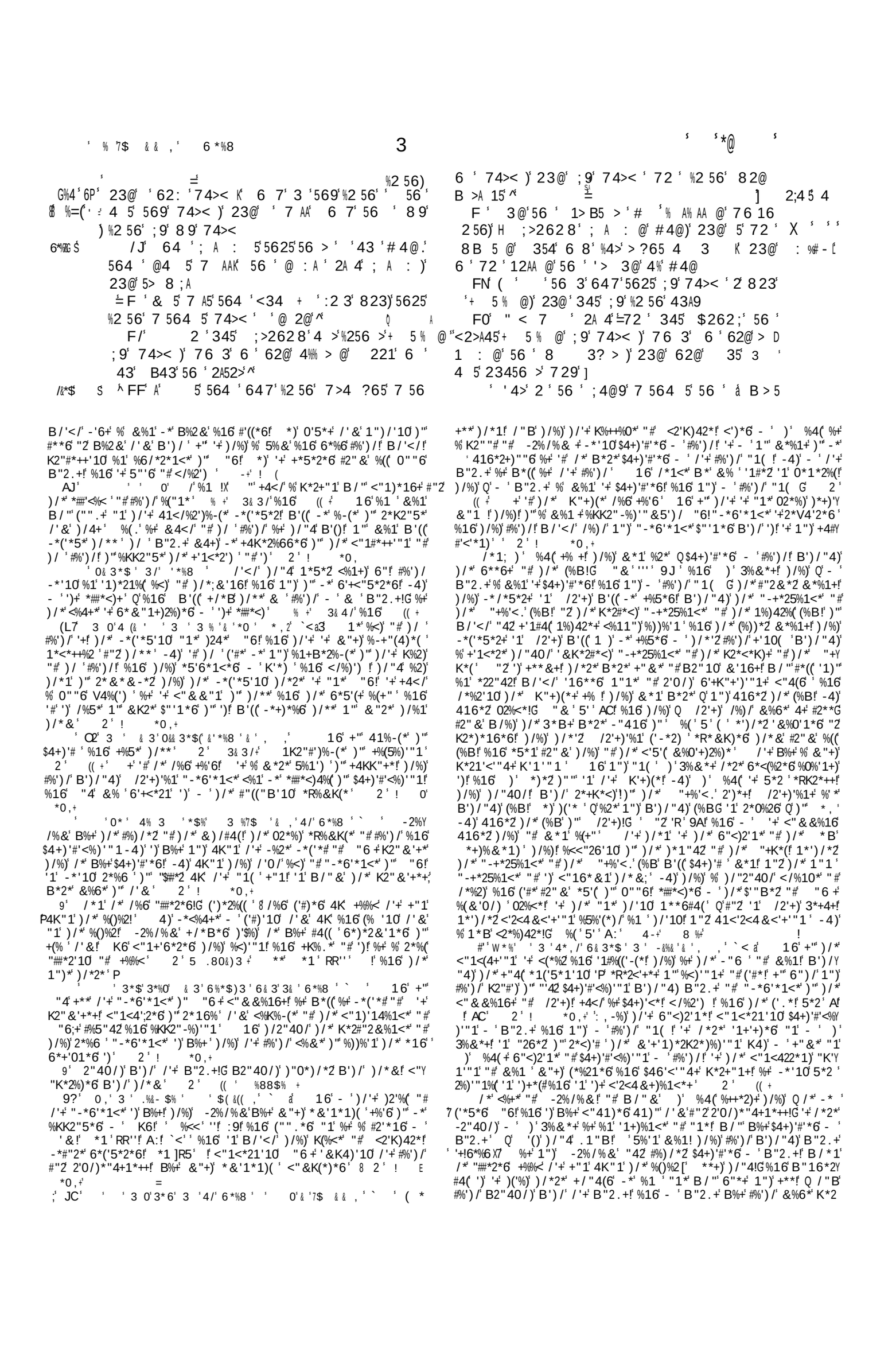
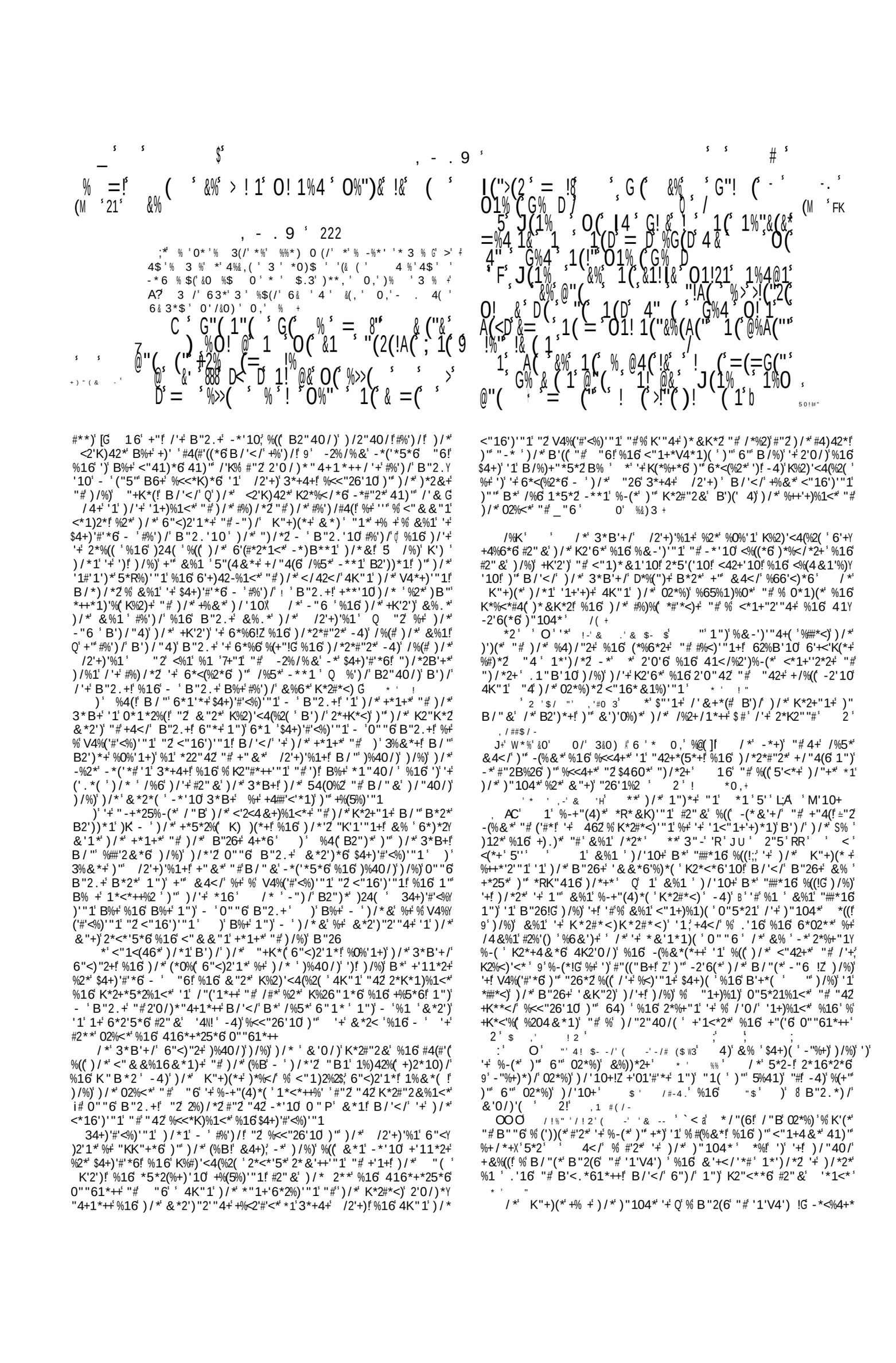
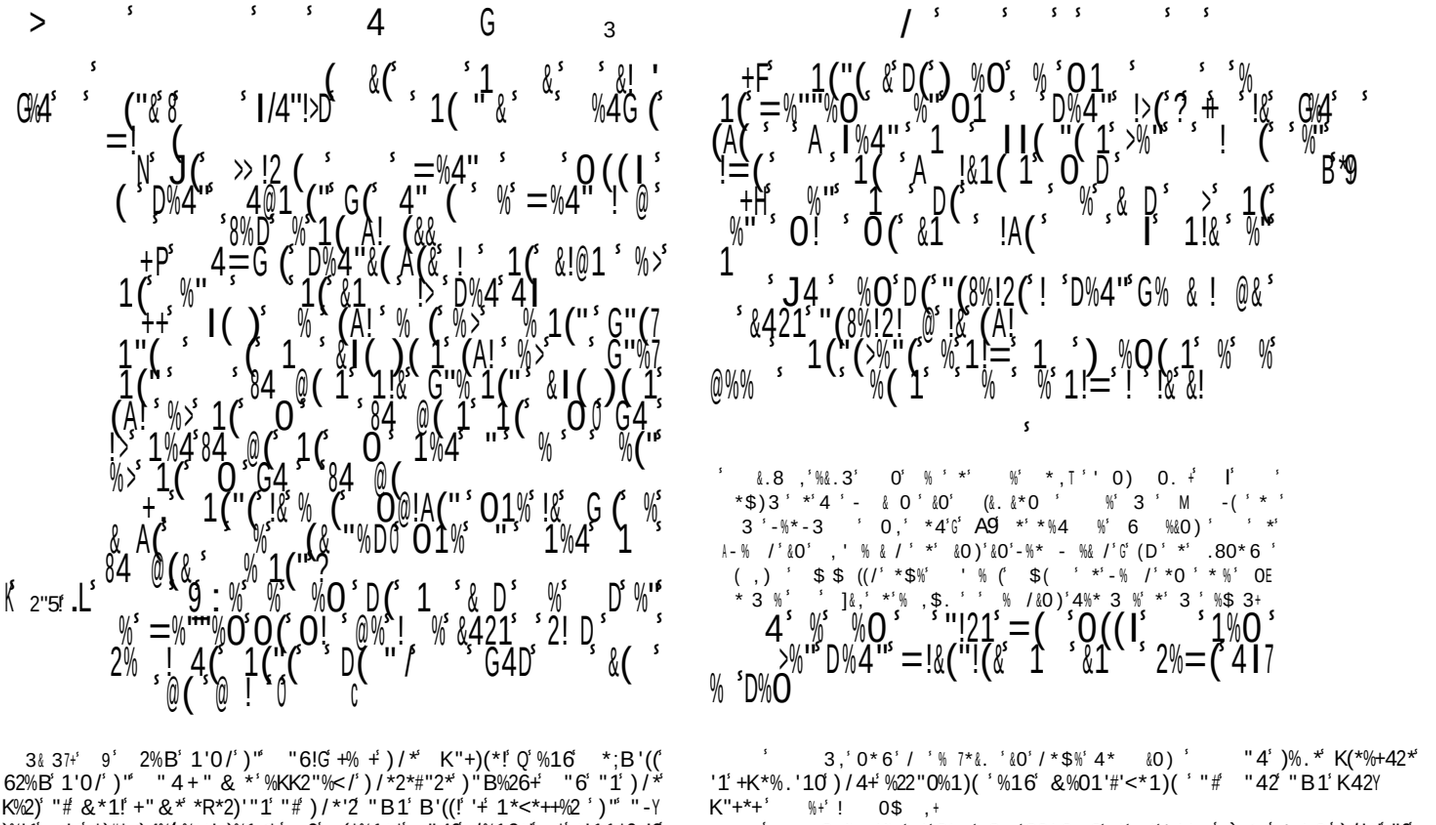
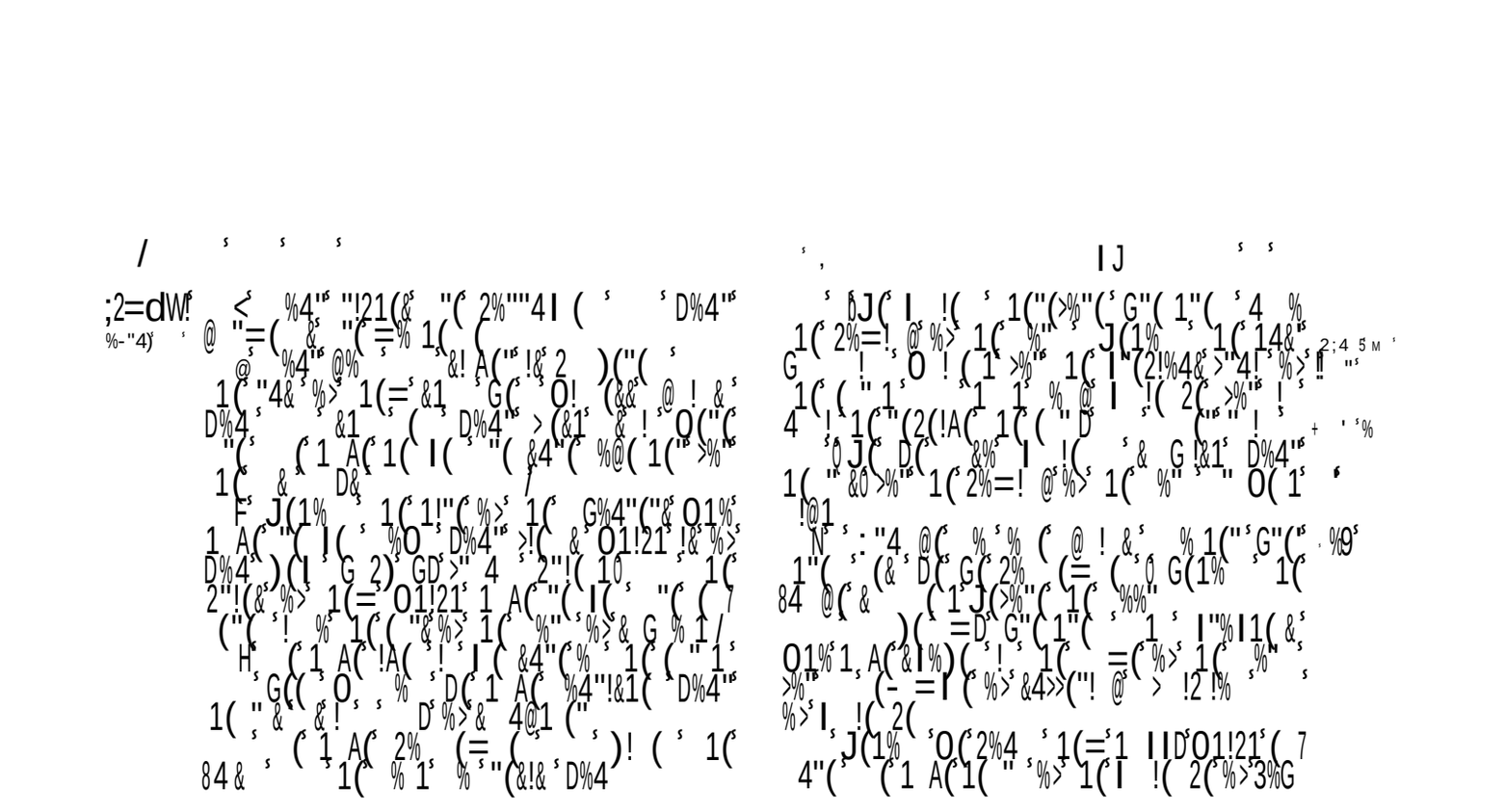
% %22%1)' #"2' %1 ' "#) /*+*f' B/' '1") ' #"2' %((['4)' "4' B' ' K(*%6'
')' K*2/%K+' "1(' #"2' +&%((+'1+' 16'+'" "1*' '+' '164(0*6' #"+)f' -*Y
<%4+*' ')' '+ -4)' % (')(*' T&*') /*1'%1") /*2f' -*<%4+*' ')' '+ 1")' 1)%</'
-'00*2' %16' /*2*' +/%((B*' +)"Kf' "2' 1'B/%)' B'(( ) /'+' *16' [5*2 '
"1*+' +'1' '+ +&%(('1' /'+' "B1' "K'1'"1f' %16' 1"1*' '+' +'" '1' 2*%(') '
"2f' -*' ') '1' B/%)' '1+)%1<*' ')' B'((f' 6'+"-* '10' "42' +##'*2f' 5'"(%)'10'
"42' "1+<'*1<*+f' %16' -' *%.'10') /2"40/') /*+%#% *6 -"16+' "#)24) /'
%16' 64) f' <%1' 1*5*2' -*' 6**&*6' % +('0/)' &%))*2f' 1"2' B'((#)' /*2*7
%#)*2' -*' #"164f' +" ' 4-' 8 %+' S
A9' O' ' 3 /' 3 ' 3 ((' 4 #7$,) ,' 4/' 3 ' 0' * '(&4 %(/' 7' +'
) /*' B/'" (""." '1') /* "+K*(f' 1")')'" -*' 6*+'01*6')'" 0'5*' &*1'
('-*2) ')'" ('5*' (*+f' 5'2)4"4+(f' "2')'" #2**') /*&' #2" &' -*'10' $460*6f'
/*2*%#)*2' - ') /*'2' B"26+' %16' %<)'"1+' -4)' %+') /*' B/'" .1"B') /*
"+K*( )'" -*' '16**6' %1' /%KK ' &*%1+' "# ('-*2) '#2" &') /* ".*" #
) /* "+%'<%(' 2')*+f' %16') /*K"B*2' "# +'1' %2'6' 6*%) /' -4)' %)') /*'
%&*')'&*' % (%B!' B/*2*-' B*' %2*')'" 0"5*21' "42' B"26+' %16' %<7
('"1+f' %16' B/*2*-' B*' %2*')";-*' $460*6f' %)') /* (%+)' 6% ' %+'
((+
A?' 8'" <1*' %./'%/*&4 3') &0& 7' 2f' 8)2'4&K/*) /' "5*2
$460&*1) ') /%)' '+f') ' *1%-(*+') /*&*' <'#4(' &%1') '" 2*$"'<*f' %+' -*'10'
#2**' #2" &') /*$460&*1)' "#<"16*&1%)'"1' "#) /%)' "6f' /'" 7') '") /*
&*2<'#4(' '((+/*B' '&+*(# &*2<'#4(!G +f' .5''' 9:' % ' 3& 4/+
AC' 3 ',*3'&'-%*&' /'4% 3% 0' ` ? 16' ') '+' 1")' #"2' %
/2'+)'%1')'" +% f') /%)' /'+' +/%((2*16*2' 4</' B"2.+' 411*<*+Y
+%2 ' #"2' '16**6' B') /"4)' +4</' B"2.+' /'+' #"') /' B'((1") /'10' K2"#')'
/'&f' %16' ') '+' 2'6'<4("4+')'") /'1.' ') B'((% +' ! *0,+' /*' U
K")(*' /*2*' K2"<**6+')'" +/*B') /*5%1') ' "#% #24') (*+' #*') / ') /%)' '
%4</' % #%') /f' %+!'+' 1")') /*K%2*1)' %16' K2'1<'K(*' "# "-*6'*1<*f' %16'
K2"64<)'5*' "# 0"'6' B"2.+f' '+' %()"0*) /*2 '1*##*<)4%(%16' 11K2"#')+'
%-(*' $%3& +' Q
O . 0' 8& 8' ' '3& ' 7' 1 /' % K2*)*16*6' %16' 5*2-%(#%') /'
-+' ! ((+' 4</' % 1%.*6' %16' #24')(*+' #%') /' +' U
AI' ' ' *' & 3' ` * $ +') /%)' '+' % 5%'1' %16' '6(*' </%2') 7









5 .3&&)3 +' "2' %1' %<<"41)' "#)/*' <%(%&')'*+' B/'</' -*#*(( )/*' 3*B+' %)')/*' 6*+)24<)'"1' "#3*24+%(*&!')/*' 2*%6*2'+' 2*#*22*6') '") /*' 1")*+' "1' *4) 'RR5'''!' %16' %)) 'RR'5

3"+*K/4+' K%2)'<4(%2('"-+*25*+' /"B' &4</')/*' 2'</' &*'1' +4##*2*6' - ') /*' "&%1+' 1') /*' 3*B'+/' B%2' %+' *, ,%&,) +

9' *$%'%&.3 ' % '.*%%$- , ' ` * a' "42' #""6!'('.*' &%11%!' '+' K4)2*#'*6' - ' -*'10' .*K)!' R"6' R5' '9 ' ' %16') (')*' 0%2&*'1)+!' B/'</' +/"4(6' /%5*' <"5*2*6') /*' 1**6 !' -*'10' (%'6' 4K' '1' "42' %262"-*+!' %2*' 6*5"42*6' - ' &") /+' %+' ! *0,+' 1') /*' #"2&*'2 <(%4+*') /*' K"+)(*' +K*%.+' "#+)"2*+' "#<"21!' B'1*!' %16' "'(!' B/'</!' ('.*') /*' 2'</' #"'"(!' &*1)'"1*6' 4.*' R'' AJ!) /*' ' /%6' %&%++*6!' K2"-%-(' - ' 2%K'1*' %16' #2%46 ' %+' 5 .80&)3 +' **') /*' 1") *+' "1' 3*2' R(' ' J ' %16' <"1<*21'10') /*' *%+)*21' <4+)"&' "# (% '10' 4K' (%20*' +)"2*+' "# 0%2&*'1)+!' +**') /*' 1") *' "1' 3"-' RR5''' (E

?' *$%') *(,' 0,' &(' %' &' . 08 % ,'!=a' 2' 24+)*6' 4)' +'1<*' 0"(6' '+' 1")' 1%)42%((' <%K%-(*' "#'24+)!' ')' /%+' -**1') /"40/') /%)') /*' B"26' /*2*' 4+*6' 6*1")*+' 1")' '16**6'24+)!' -4)') /*' #"4(1*+' B/'</' (%)' &*)%(&%' <"1)2%<)' %83$% +

O O' 0,' 3 '%$ ' 3 ' 3 ((' 3 ' '&0 ') &0 '/*$' ` < a' /*' <'2<4&+)%1**+' "#) /*'2 <"2#)' -*'10' K4)2*#'#*6!'%16' "#) /*'2 0"(6' %16' +'(5*2' -*'10' *%)*'1' B') /'24+)!'%2*' &*1)'"1*6') '" +/*B') /%)') /*' /%6' 1")' -**1' K2"K*2(' 4+*6!' -4)' <"5*)"4+(' /"%26*6' 16' -' %+)2'10' K"*)'<%(#'042*!') /*' 1'+)' "#) /*'2 0"(6' %16' +'(5*2'+' 2*K2*+*1)*6' -") /' %+' %' B')1*+** %0%'1+)') /*' &!' %16' %1' *R*<4)'"1*2) '" 6*+)2" ') /*' &' ') ' B'((' -*%2' B')1*+**) '") /*'2 <"5*)"4+1*++!' %16' K41'+/') /*' &' - ' 2%'+Y '10') /*' &"+)' %<4)*' K%'1' 1') /*'2 <"1+<'*1<*' %+' 5 .80&)3 +

O9O' *%' 3 '(' , / , ' "2') /*') '&*' "#) /*' #'1%(6*+)24<)'"1' "# "42' +)%)*!' B/'</' '+' 1" B' <" &'10' "1' %+' ((+' /'+' 6*141<'%Y)'"1!) /"40/' %KK('*6' /*2*')'") /*' 41-*('*5'10' 3*B+' 1') /*' K"+)(*+' 6% +!' '+' 0*1*2 ' '1') +' 1)*1)'"1!' %16' "40/') ')'" -*' +*2'"4+('%))*16*6')'" - '% ' '1' *5*2 ' %0*!' B/'" %&%+' 2'</*+' 41$4+)(!' %16' B/'" *') /*2 /'"%26') /*&'<"5*)"4+(!' "2' +K*16') /*&'(4R42'"4+(2' ')' +' 1' 2*%(') ')2*%+42'10' 4K')'") /*&+*(5*+' &'+*2 ' %0%'1+)') /*' 6% ' "#$460&*1) ' %+' 5 .80&)3 +

Y+' 3*(, ' 3 '3&% '*' '3 '(4*$% % ' ` < a' /*' K2*<*K)' "#) /*' (%B')"4<('' 10') /' +' &%))*2' +' <"1)%'1*6 '1' *5 'R'R' H2' *4) 'RR'5 'A: ' /*' .**K'10' "#) /*' /'2*' -%<.' +') /*2*#"2*')24(') (*6' #2%46' %16' "KK2*++'"1' %16' %((+'1+' "#) /%)' 1%)42*' <2 ') '" /*%5*1' #"2' 5*10* '%1<*' 4K"1') /*' #2%464(*1)' "KK2*++"2' %+' 3& 4/+

3' *%,' *' ' 4 *(3+F= /%)' '+!' "#' /")+)+' **') /*' 1") *' "1 "&' '

L' O' '&0' ' , /'*' ' (&)3 %& ' 2!' Q' #"2' %' 6% ' "# +(%40/)*2' 1%&*(!' %+') /*' +%<2'#'<*+!' B/'</'%2*' #'2+)' #%))*1*6' % 6) /*1' +(%40/Y)*2*6' **' +' RRR5''' 9 ' %+' 3& 4&`+

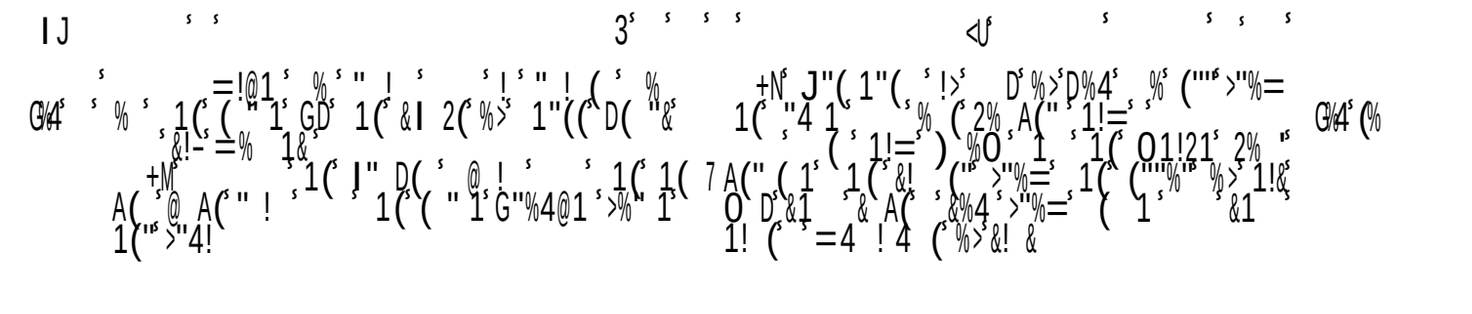
D+' '3 ' '.*0, 0 ,'] ,'8&((,' 3 ' $ %&*(!' &%1 ' %') 1'*' /2'+)'%1!' B/'" 6"*+' 1")' +" &4</' %+' 2*+')' "4!' -4)' K%)'*1)('%16' </**2#4(('+4-&')+' *5*1')'" 6*%) /' ')+*(#' %+' ((+

<+' O' 3 ' %(/' 0,'(%'% &0+J' **) /*' 1") *+' "1' *4) 'R' ' AC2 RR5''' A9' A %&' R'' AI7

J' O' *%' 3 ' .* &0)' ; ' 3 ' *%,' ,% 6 3' 0&)3&' /'+' &% ' -*' 416*2+)'"'6 "#)'2*' K%2)'<4(%2' <"&'10' "# /2'+)')'" 6*+)2" ') /*' 3*)5

'+/' K")(') !' B/'</' B%+') /*'1' %)' /%16' "2' "# '+' 0*1*2%(<"&'10') " $460*') /*' B"2(6' %)') /*' (%+)' 6% ' $%8& +' A' 7

A' 8 ' /'4% 3% 0' 3 '+-%*-3 L *%' 0' M -(' `< ?' /*' &<%&K(*' "# "6' '+' <")'+)%1)(7K2"K"+*6') '" 4+' '1') /*' <2'K)42*+' %+') /*' &"+)' 41*R<*K)'"1%-(' B"2) / ' "# "42' &')%)'"1' Q' *' */"(!G +% +' "6!' Q' %+' A%&' /"(G Q' *' K*2#*<)!Z +% +' "42' "26!G %+' "42' /*%5*1(' %) /*2' '+' K*2#*<) G 4)' "6' -*'10' 1"!' "-$*<)' "# "42' +*1+*+!' %1P') '" -*' %KK2*/*16*6' "1(' - ' "42' 416*2+)%16'10!') /*' <2'K)42*' /%) /' %66*6') '" ')!' %16' /%) /' 2*<" &*16*6') '" 4+' %1") /*2 "-$*<)' B/'</' '+' &"2*' #%&'('%2!' %16' %KK2"%</'10' 1*%2*2) '" "42' <%+*[! *5*1' 3*+4+' /2'+)!') /*' 5'+'-(*' '&%0*' "#) /*' '15'+'-(*' "6!' +/*B' '10' 4+' %1' %<<" &K('+/*6' 5'2)4*' '1' %1' /4&%1' #"2&' %16' 1%)42*!' %16') /*' %&'%-(*' %16' &')%-(*' V4%(')'*+' "#'164+)2 !' <"16*+<*1+'"1!' /4Y &'(') !' &** .1*++!' K%)'*1<*!' *"42%0*!2*+'01%))'"1!' %16' 6'%2') !' 416*2) /*' 02*%)*+)')2'%(+' %16') /*' /*%5'*+)' +4##*2'10+' 4)' /*2*' %0%'1' !') /*2*' '+' %+"2)' "# K(*% %16' *R<4+*' #"2' 42' #%((('10' ('5*2 '+/"2)' "#) /*' K%))*21!' +'1<*' B*' /%5*' &%1 '6'#*<)+!' &%1 '#2%'()'*+!' &%1 '2Y 2*04(%2' 6*+'2*+!' &%1 ')42-4(*1)' K%+'"1+!' #2" &' B/'</') /*' "1' "# "6' B%+' #2**' "' 2*&"5*') /*2*#"2*' %((*R<*K)'"1+' "#') /'+' +"2)!' %16' %((K2*)*1<*+' "#'1%-'() ') '" 6'+<'/%20*' 42' "-('0%)'"1+!' B*' /%5*' U) /*' 24(*+' "#' &"2%(') '%16' 2'0/)*"4+1*++' 2*64<*6') '" K2%<)'<*' '1' &*1!' B/'" B*2*' 1") /'10' &"2*') /%1' &*1' /"40/') /*'2 *R%&K(*' '+' #%2' +/"2)' "# K*2#*<)'"1!' *)' ') '+' B"2) / ' "# 42' *&4(%)'"1' %16' '&')%)'"1!' %16' % +*1+'-(*' 2*K2"%</' "# "42' #%'('10+' '+)"2 ' +%<2*6' %16' +*<4(%2 +/*B+' 4+' &*1' 1%)42%(('%+' B*%.'%+' B*' %2*!' ('%-(*') '") /*' +%&*')*&K)%)'"1+' "# 5%1') !' <"1<*')!' K2'6*!' +*1+4%(%##*<)'"1+! #*%2!' B2%) /!' *15 !' %16' &%('<*!' *)' <"1V4*2'10')('*+*' #**+')'") /*'2 +%(5%)'"1' /*' /%6' %+' V4'<.'% +*1+*' "# K(*%+42*' %16' K%'1!' "# ("5*' %16' %5*2+'"1!' "# K2"#')' %16' ("++!' "# K(*1) ' %16' K"5*2) !' "# / "1"42' %16' 6'+/"1"42!' %+' B*' %16' *)') /*' "5*2<%&*') /*' B"2(6' - ') /*'2 #%') /!' %16' - ') /*' '1#(4*1<*' "#)24*' 2*('0'"1' 4K"1') /*'2 &'16+' /*' /%6' '16**6') /*' '5'1*' %++'+)%1<*') '" +)2*10) /*1') /*'2 '1#'2&') ' %16' +'" &%' B*!' '# B*' +**.' ')' %+!) /*' 6'6' %+' *%' &0+ AA' O' +'3 ' '3 %,' *' ' 3 ' - & 0.' *' ' *4 J' 24*' K%)'*1<*' +/%((1*5*2' 0'" B') /"4)' <"1+"(%)''"1' *') /%)' B'((/%5* K1)'*1<*' "1B%26' +/%((-*' +42*') '" /%5*' <"1+"(%)''"1' %)' Q' /*' K%)'*1)' %-'6'10' "#) /*' &**.' +/%((1")' K*2'+/' #"2' *5*2!Z +' 'R' ') ' 3%&*+' B"4(6' /%5*' 4+' +*)' -*#"2*' "42' * +*) /*' 2"K/*)+' %16' +%'1)+' #"2' % 0*1*2%(' *R%&K(*' "# +4##*2'10' %##(<)'"1' %16' "#K%)'*1<*' %16' /*' /*2*' <"&&*16*) /') '" 4+' "1*K%2)'<4(%2' *R%&K(*' %+' - 'B% '"#'1Y +)%1<*!' 1%&*(') /%)' "# 3"-' 3"-' /*(6' "4)' '1' /'+' K%)'*1<*' 416*2 02*%)')2'%(+' 41)'") /*(%+)' %16' "6!' "4)' "#K') '%16' '1' '+')*16*2 &*2<') "B%26+' /'&!' /*%K*6' <" &#"2)+' 4K"1' /'&%)') /*(%+) '1'02*%)' %-416%1<*')'B"4(6' -*B*((' B"2) / ' "# "42' &"+)' +*2'"4+' &*6')%Y)'"1!')'" <"1+'6*2 -") /' B/%)' - ' "6+' 02%<*' /*' 6'6!' %16' /"B' - ' "6+' &*2< ' /*' +K*6' '+' *R%&K(*' '1') /*' "1*' B"4(6' -*' %' 0"'"6' K%)) *21'#"2' 4+' "#K%)'*1<*' %16' /'+' 2*B%26' '1') /*' ") /*2' % 0"'"6' *1Y <"42%0*&*1)' #"2' <"1+"(%)''"1' /'+' B*' &%' 2*+)' 4K"1' %+' &"+)' K*2#*<)')';4) /!) /%)' '# B*' 6'" 42' K%2)' "6' B'((1")'#%)'("1' '+' -&' 0, % *0+ #)*2' &*1)''1'10') /*' 2"K/*)+!' 1%&*(!' ('$%/!' +%$%.!' 3*2`H



2*<)(! *') / *2) / %#) / * 62"40 /) -2"40 /) "1! "2) / * 2%'1 +*1)! '1 <"1+*V4*1<* "# ('$% / + K2% '10 4) -") / %2* '1+'14%)*6 "2 M'10+ R5'' 9! B * %2*)"(6) / %) ('$% / +B%2* Q) / *2* + / "4(6 1") - * 6*B 1"2 2%'1) / *+* *%2+! -4) %<<"26'10)"" / '+ B"26!G) / %) '+! %+) 3%&*+ / %) / *RK(%'1*C ')! %<<"26'10)"" / '+ '1+K'2*6 K2% *2 #"2 62"40 /) "2 #"2 2%'1 16 A M'10+ R5'' C9! B * %2*)"(6) / %) 9 / * <%+) / '&+*(# 6"B1 4K"1) / * *%2) / ! %16 K4) / '+ #%<* -*)B**1 / '+ .1**+!G B / '</ '+ %1 '1+'14%)'"1 "# / '+ +*<"16 K2% *2! #"2) / %) B%+) / * K"+)42* "# %1 / 4&-(* %16 *%21*+) +4KK('<%1) **4&- R5' C 2! 5 .80&)3 +

9 O= 0, 3 ((3&, $(&$, * $ / %((-* %&*%1+!) / %)) / * &%1 +'1+ "#) / %) <"15*2) + / %(( ) / 2"40 / / '+)24* 2*K*1)Y %1<* -* #"20'5*1! %16 1") '&K4)*6) "" / '& - + ! ((+

2! / '+ K'"4+ %16 </%2')%-(* (%-"42 + / %((-* +"" %<<*K)%-(*) "" "6! %+) "" '164<* "6) / 2"40 / /2'+)) "" / '6* "2 <"5*2 / '+ "B1 +'1+ 2 ((+ / * K%+%0* +** &+) "" -* &*%1)! 1") "#) / * +'1+ i#) / * K*2+"1) / 4+ <"15*2)*6! #"2) / * +%5'10 "# / '+ +"4('1<(46*+) / * 2*&'++'"1 "# / '+ +'1+ -4) "#) / * +'1+ "# / '&) / %) <"15*2)+ / '&) / %) '+!) / '+ </%2')%-(* B"2 . + / %((-* +"" K(*%+'10) "" "6! %+) "" K2*5%'(B') / ' &) "" <"5*2 &%1 "# / '+ "B1 +'1+ 2 3& 4 / / * +*1+* %KK*%2+) "" -*!) / %) %+) '+ +%'6 '1 %1'*(! </%K R'' ! 9) / *) / %))421 &%1) "" 2'0 /)*"4+1*++ + / %((2'''1* %+) / * +)%2+ #"2 *5*2%16 *5*2 %16 %+ '1 </%K '5 91! *-4</%61*DD%2 '+ *RP

/ "2)*6) "" Q -2*%. "## / '+ '1'V4') '*+! - + / *B'10 &*2<) "") / * K""2 G %16 %+) / * B / "" / %6 #%((*1 416*2) / * <*1+42*+ "#) / * </42</ - +'1 B*2*! '1) / * %1<'*1) </42</! %<<"26'10) "") / * %K"+) "('<%(24(*+!) "" #")) / *&+*(5*+ #"2%-+"(4)'"1! 1") "1(- 2*K*1)'10 %16 2*#"2&Y '10) / *'2 +'1+! -4) - %66')'"1 "# B"2 .+ "#</%2') %16 &*2< +"") / '+ 02*%) </%2') "# <"15*2)'10 %1 % *) / * *22"42 "# 1+ B% ! B / '</ '+ % &*%1+ "# +%5'10) / * +"4("#) / * <"15*2)*6 %('5*! + / "4(6 -* 5*2 %<<*K)%-(* '1) / * +'0 /) "# "6! %16! -*'10 %66*6)"" +'1Y <*2* 2*K*1)%1<* #"2 / '+ +'1+! + / "4(6 -* *##*<)4%( ) "") / * "-)%'1'10 "# / '+ K%26<&) /2"40 /) / * &*2<'*+ "# /2'+) 416*2) / * "+K*(! 16 %+) / '+ +*1+* +**&+ &"+) %02**%-(*) "") / '+ K(%<*! B / *2*) / *2* '+ % 6"4-(* *1<"42%0*&*1) "##*2*6)"" *R<') *) / %) </%2') A+)!) / * <"1)*&K(%) '"1 "#) / * %65%1)%0*) "") / * 2*<*'5*2! Q +%5'10 / '+ +"4(%('5*!G B / '</ '1<(46*+! %16 <%11") B*((-* '&K2"5*6 B') /) / * %6Y 6')'"1 "#$ <"5*2'10 "2 #"20'5'10 / '+ +'1+ %16 96(! "#) / * %65%1Y)%0*) / %) 6*5"(5*+) "" / '&+*(# +"" ') B'((-* #"416 K*2#*<)(<"1Y <"26%1) B') /) / * 6"<)2'1*+ %16 '1)*2K2*)%) '"1+ "#) / * %1<'*1) </42</ %16 1"" B% '22*<"1<'(*%-(* B') /) / * &*2')+ %16 +%)'+#%<Y)'"1 "# P+)! - B / '</ '(')'+) / %) "6 -*<"&*+ K2"K')'"4+) "" "42 -*+) K*2#"2&%1<*+ B') /) / * 6"<)2'1* "# $4+)'#'<%)'"1 - '%') / ! B / '</ 6") / 1") *R<(46*! -4) +4KK"+*!) / * 2*B%26'10 "# K42 </%2') ! % ! *0, *) / * 1") ` "& -K 8 % "1 A *) '5 J

/ *'#"((" B'10 *2+*+ #2" &) / * *1*2%(K'+)(* "# 3%&*+ %2* %KK"'1)*6 %+ K'+)(*+ "1 416% + %16 "(6% +

5*2 ;(O A9!	) / '('K %16) 3%&*+!	K'+)(*
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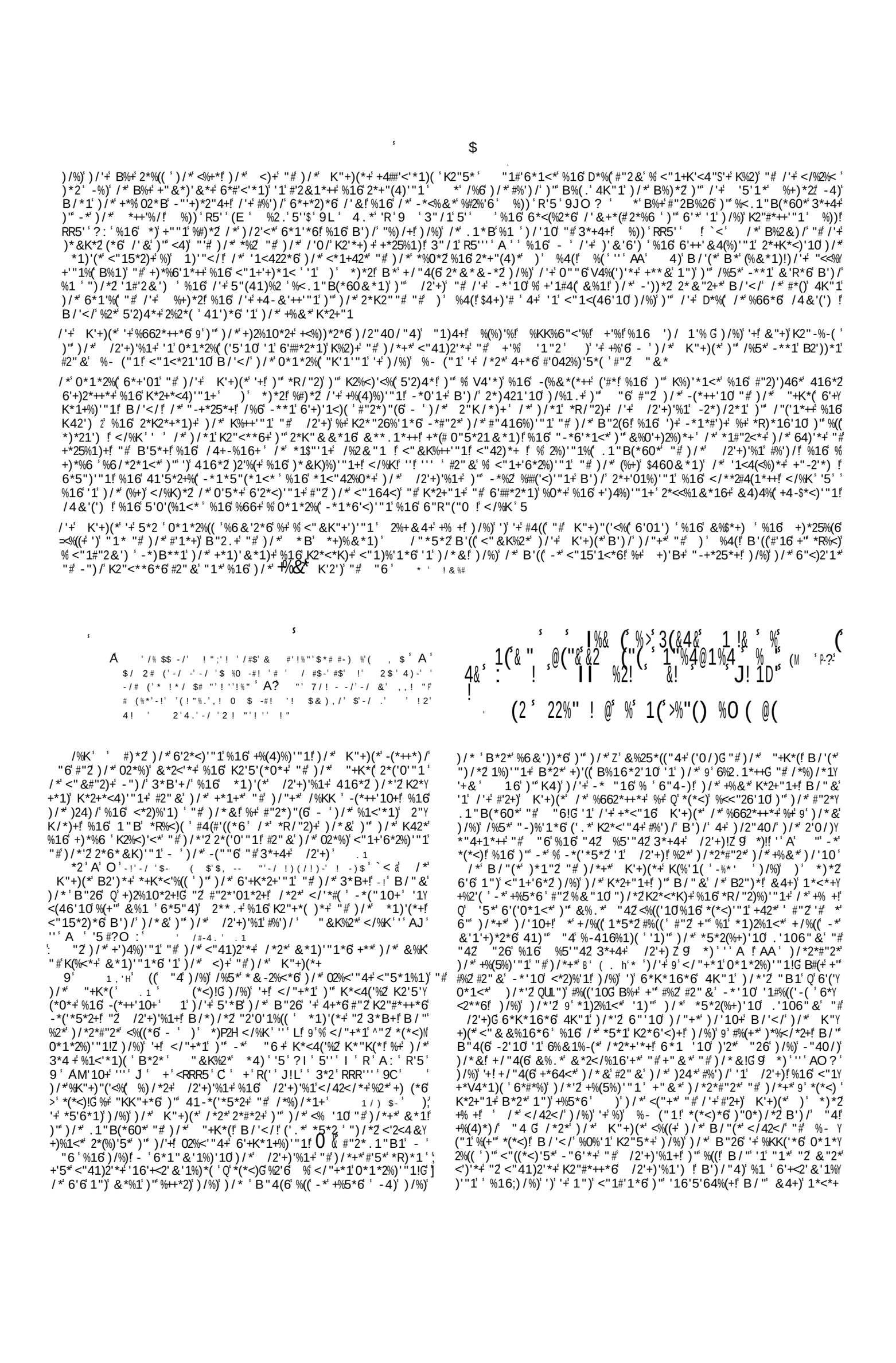

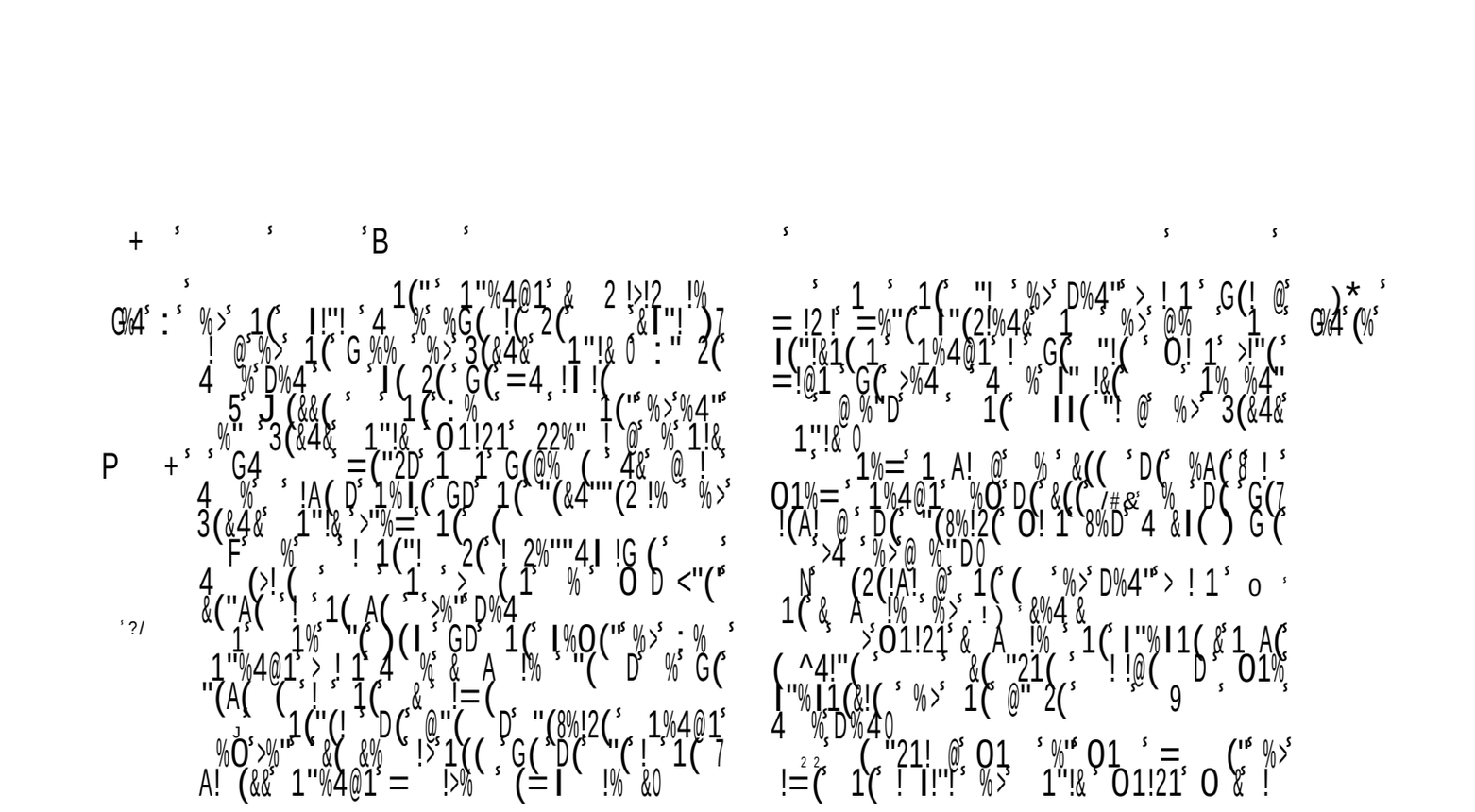

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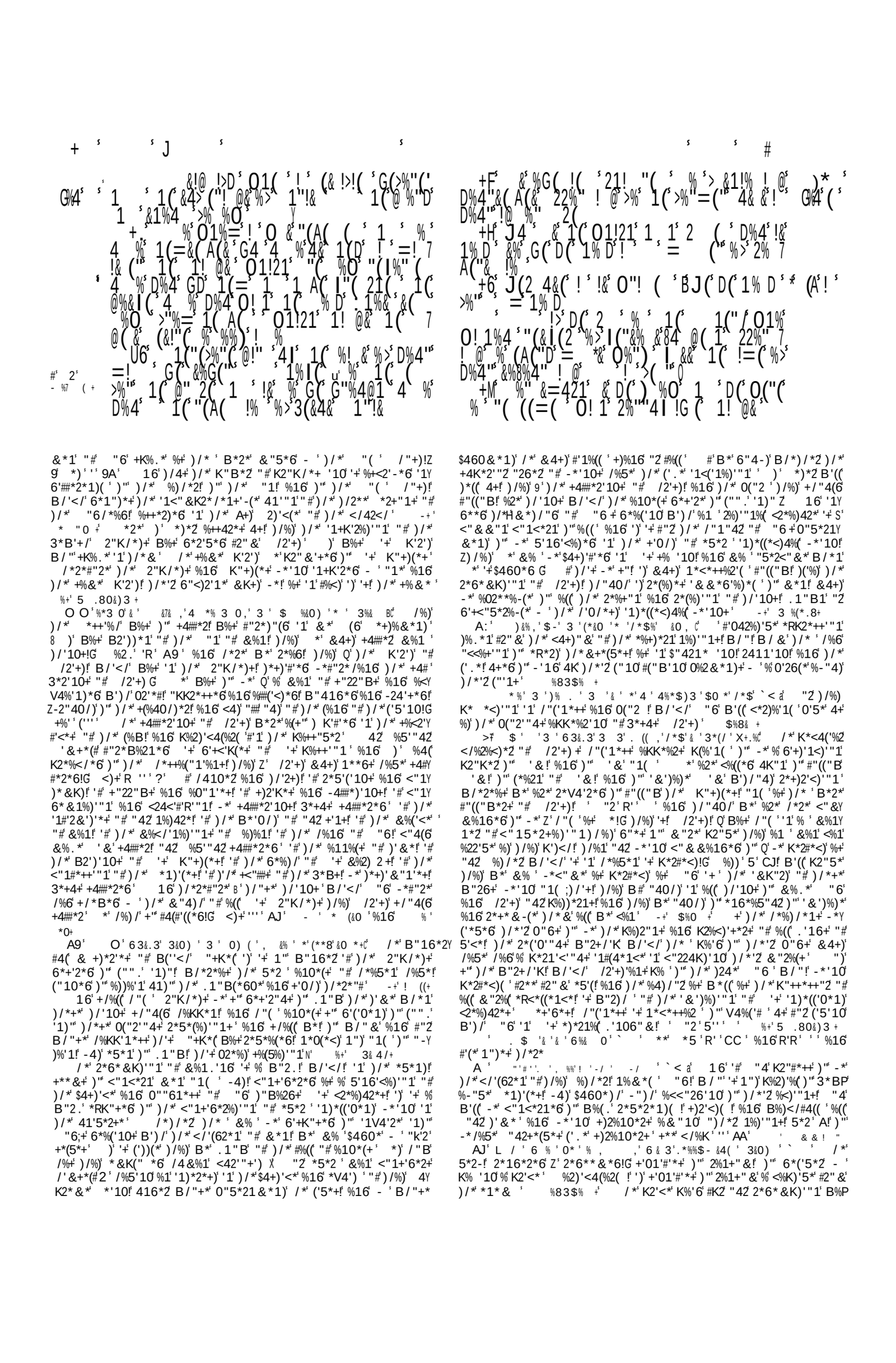

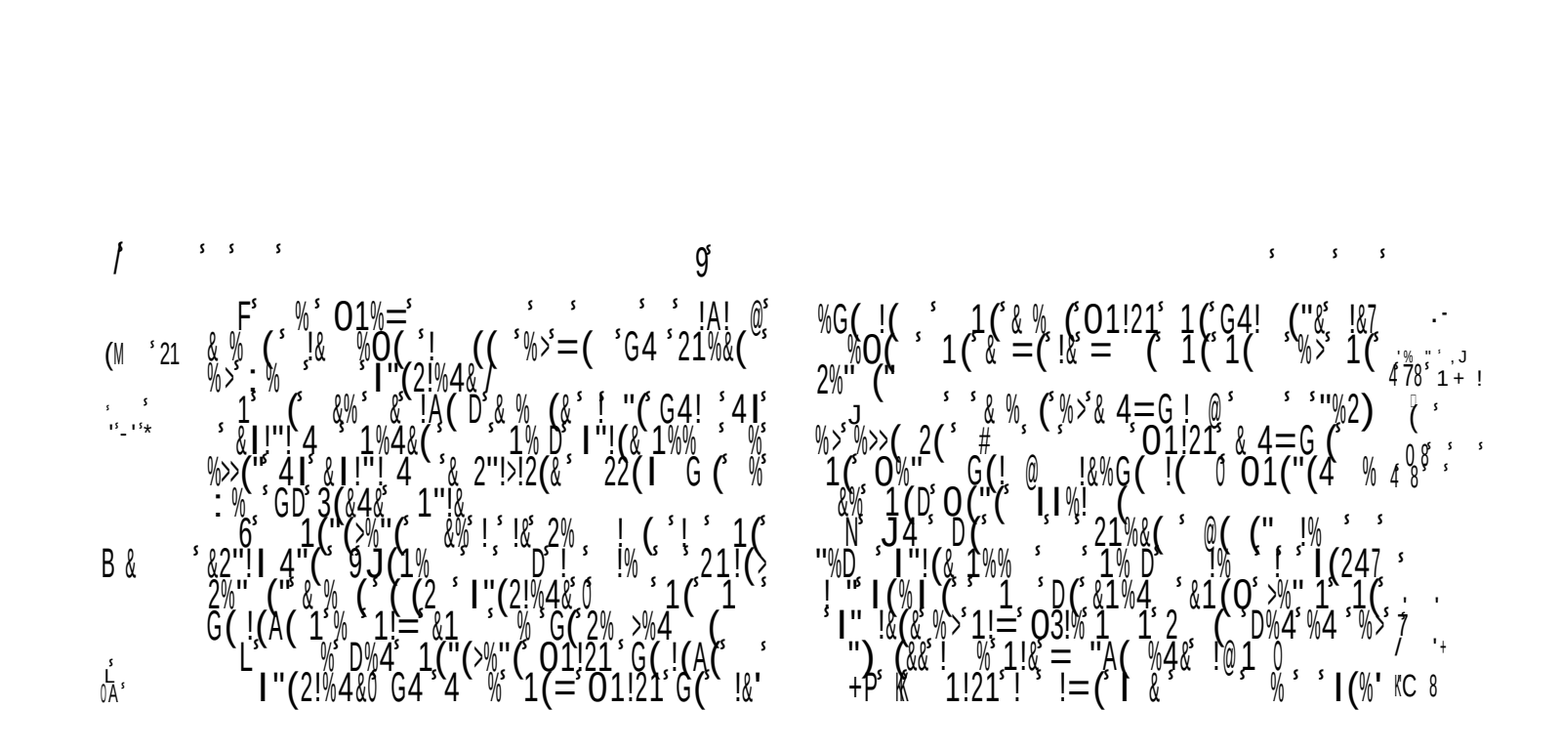

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C' O' '%#0# (''$-& `_' /*' /2'+)'%1' <('42</' -*'10' 1")' % -4'(6Y
'10' &%6*' 4K' "# &%)*2'%(+' B') / "4)' ('#*!' %+' B%+') / *')*&K(*' "# 3*24Y
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/2'+) +' -"6 !' ('5'10' - ') / *' K'2')' <"&&41'<%)*6')'") / *1' #2" &'
/2'+)!') / *'2 /*%6!' %16') / *' #"41)%'1' "#('#*!' K/ '5' (E ' "('' ';(K'
!' B / '" <"&&41'<%)+') / '+' (#*')'") / *&!' '+') / *2*#"2*' +) (*6' Q' S'
('5'10' +)"1*!G %16') / * ' B / '" 2*<*'5*' ')' #2" &' '&' %2*' %(+'" +) (*6
('5'10' +) " 1 *+%1 6' -*'10' - ') / '+' K'2')') / 4+#')('K4)')"0*) / *2!'
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, ' AA!') / * ' %2*' +%'6')'" -*' -4'()' 4K' Q' % +K'2')4%(/ "4+* G' = '
/#-/ .
!' /*' K"+)(*' /*2*' <%((+' 3*+4+' /2'+)' Q' % ('5'10' +)"1*!G')'" +/ *B'
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?' ('5'10' +)"1*!G' / *' %66+!' Q' *' %(+'" %+' ('5*(!G' "2' 2%) / *2!' Q' %+' ('5Y
'10' 9' +)"1*+!' %2*' -4'()' 4K' % +K'2')4%(/ "4+* G' *' '+' +4<!' % ('5'10'
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K(*%+*6' 3'" 6B*((!' %<<"26'10')'" B / %)') / *' K"+)(*' +%') / ')'") / *
+%'1)+' %)' "2'1) / !' A "2' / ' (E ' 5' ' AL' %16')'") / "+*' %)' K / *+4+!'
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+%'1)+!') / *' -"6 ' "# /2'+)!' %2*') / *' +K'2')4%(/ "4+*' +K".*1' "#'1'
) / '+' K%++%0*' ' Q') / *' / "4+*' "# "6G "2' Q' '+' /%-')%)'"1!G - ' 2*%Y
+"1' "# '+' K'2')' 6B*((1'0' '1') / *&' 16') / *2*#"2*') / * ' %2*' %((
"#) / *' +%&*' / "4+/"(6!' Z') / *' / "4+/"(6' "# "6!G %+' ')' '+' / *2*' <%((Y
*6!' %16' *(+*B / *2*' Q')'2*' / "4+/"(6' "# #%') / !G %(' 5' ' A ' -*<%4+*'
')' '+' -'#%') / ') / %)') / * ' %2*' -4'()' 4K"1' /2'+)!') / *'#"416%)'"'1' "#) / '+'
/ "4+*' *1<*' ')' '+!') / %)') / * ' %2*' %((' %65'+*6')'" 9' -4'(6' 4KG' "1*'
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"#)*1' +K*%.+' "# Z' *6'# '10') / *' </42</!G Z' *6'# '10') / *' -"6 ' "#
/2'+)!Z 9' *6'# '10' "1*' %1") / *2' '1' ("5*!G) / %)' Z' %(( ) / '10+ 12% ' -*'
6"1*')'" *6'# '10!G %16') / *' (' .*' ((' B / '</' *RK2*++'"1+ / %5*;2*Y
(%)'"'1')'") / '+ +K'2')4%(/ "4+*!' 6*1")'10') / *' 1*<*++') ' "# "4)' -*'10'
*6'#'*6' "2' -4'()' 4K' '1' #'$') / ' %16' ("5*!' +'") / %)' B*' &% ' -*' 2*%(K%2)+'
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#"(' *') / *' 1")*' #2" &' K' %16*2+"1' '1' A "2' R' 9?
'"#$ %%!-0 "' # " ">' 2' Q' 2*$*<)*6' "# &*1!G) / %)' '+!') / *
3*B'+/' %1 / *62' &!') / *' -4'(6*2+' &*1)'"1*6' +' <R5''' ;99!' %<<"26'
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, ' AI!' AL' ' /#-4 .
' O' ' / !%.' * # $-/ ! ! " ;' /*' (*0%(' +%<2'#'<*+' B*2*')'" -*' "#Y
#*2*6' - ') / *' K2'*+)+' %("1*!' %16' "1(' '1') / *')*&K(*' %<<"26'10('
) / *' /2'+)'%1' </42</' '+' /*2*' 2*K2*++1)*6' %+' "6 +')*&K(*') / *
K2%'+*+' B / '</' /2'+)'%1+' "##*2' 4K')'" "6' '1') / *'2' %+'+*&-('*+' %2*'
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) / *' K*2+"1+K5;/'" "##*2') / *&!' Z' %1' / "(' K2'*+) / "'"6 G' /#-4 .
1' *5*2' ')*&K(*' "#) / *' "26' ')' +' 1*<*++%2') / %)') / *2' -*' (' .*Y
B'+*' % K2'*+) / "'"6!')'" "##*2' +%<2'#'<*+' +4')%-(*')'" +4</' %)*&K(*

16' +'") / *2*' '+' /*2*' "2') / *' K"+)(*' /%5'10' +%'6!')3#.') / *
+%'1)+' %2*' %' Q' +K'2')4%(/ "4+*'G "2')%1K(*!' %66+!') / %)') / *' %2*' %(+'"
Q' %1' / "(' K2'*+) / "'"6 G +') / *' %2*' Q') / *' ('5'10' +)"1*+!' "# B / '</'
) / '+') *&K(*' '+' <"&K"+*6' "2' <"1+'+)*) / !' +'") / *' %' *' (' .*B'+*' %(("#
) / *' "26*2' "# K2'*+) / "'"6!' Q' %1' / "(' K2'*+) / "'"6!G K2"K*2' #"2' +4</' %1'
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U41)'" '&' %' .'106"&' "# K2'*+)+!G R"6' R'R' E' % .'106"&!'
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) / %)' Q' 3*+4+' /2'+)' / %) / ' &%6*' 4+' .'10+' %16' K2'*+)+' 41)'" "6' %16'
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<*K)%-(*')'" "6' - ' 3*+4+' /2'+) G' K' 0 #"(
J' / '! ' %$!'#-'#$',! - # "'# ' -/ ' $, #*-) 3' 2' #"2*)"(6
) / %)' "6' 6'6' '1)*16')'" '1)2"64<*') / *' K2'*+*1)' "+K*(' 6'+K*1+%)'"1'
- ' /2'+)!' '1') / "+*' B"26+' "#) / *' 2"K / *)' +%'%/!' </%K!' RR5''' ' (D+'
%%$' **') / *' 1")*+') / *2*
J' "' '$-! '! ''$-) & 4%# (' #"' ' !,1'!''!'' , ' ' +%'%/!'
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-0 /) -!' %$!' -/ .' 2 ' * *!# - " _ /%)' '+!' +%')' / 2
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+'" -*') / *' k#"2+*' #"2' ')' 16' <*2)%'1(' ')' <%11")' +'01'#' !') / %)') / *'
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41/42)!' /%6') / *' -4)' &"6*+)(' -*00*6!' %16' 64)'#4((' #"(("B*6!'
) / *' '5'1*' '((4&'1%)'"1' 4*' 1
L') -'. ' ' ' ,/!$ '(-#! ' `< a' /*')')(*+' /*2*' 0'5*1'
)'") / *' /2'+)'%1+' %2*') / *' +%&*!' B / '</' #"2&*2(' B*2*' 0'5*1')'") / *'
B / "(*' 3*B'+/' 1%)'"1' -4)' B / '</!') / *' K")(*' +% +!' 1"B' -*("10'
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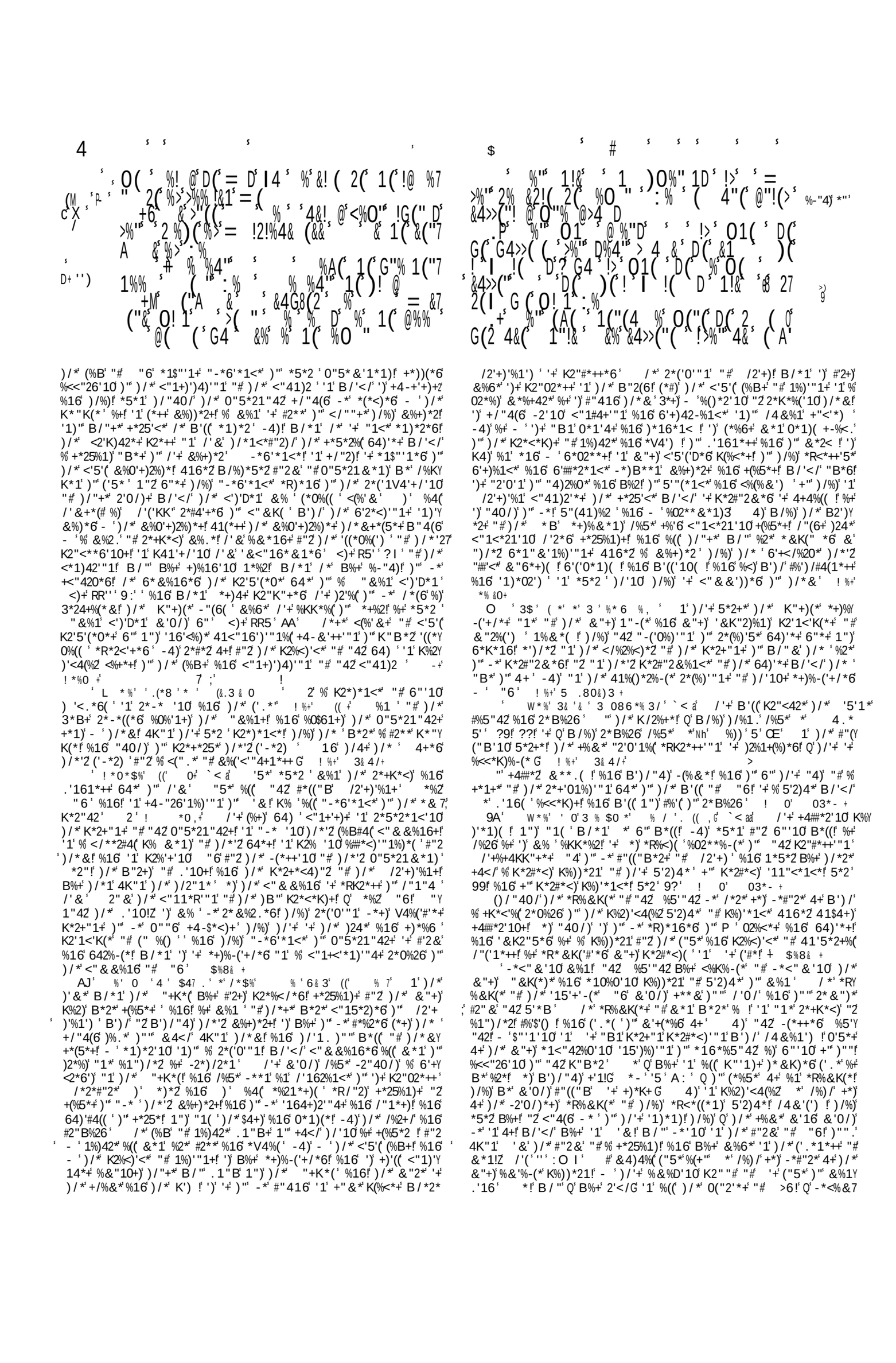
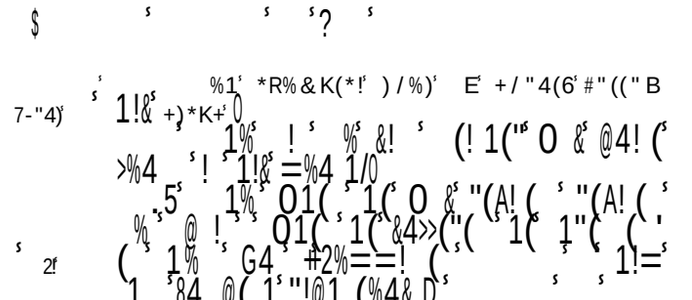
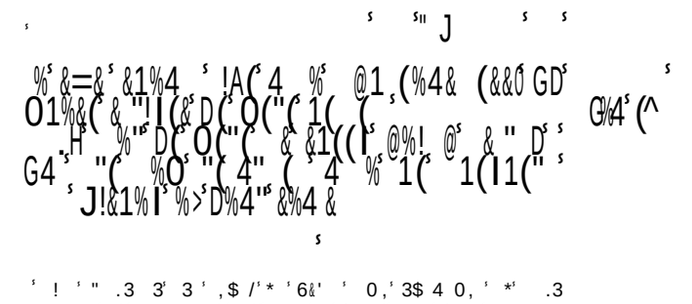
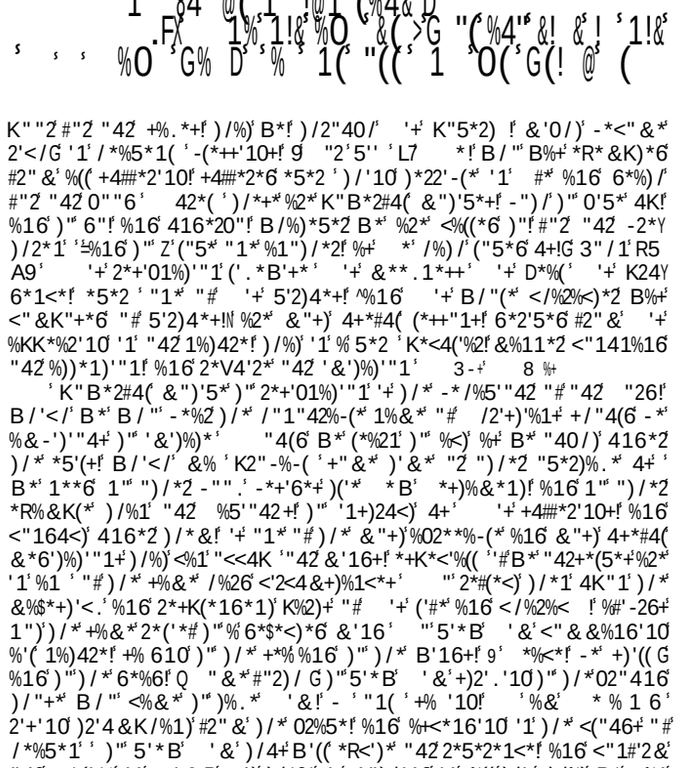
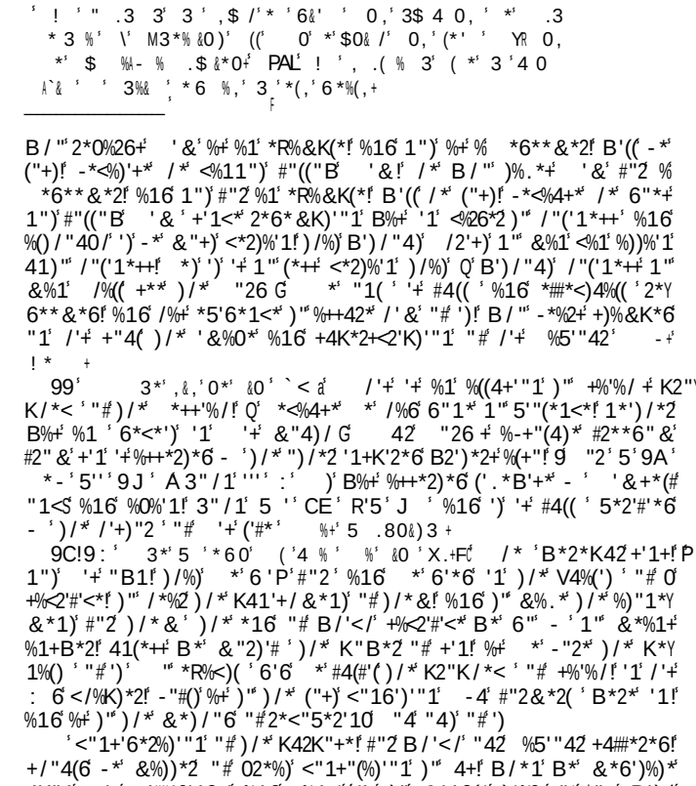
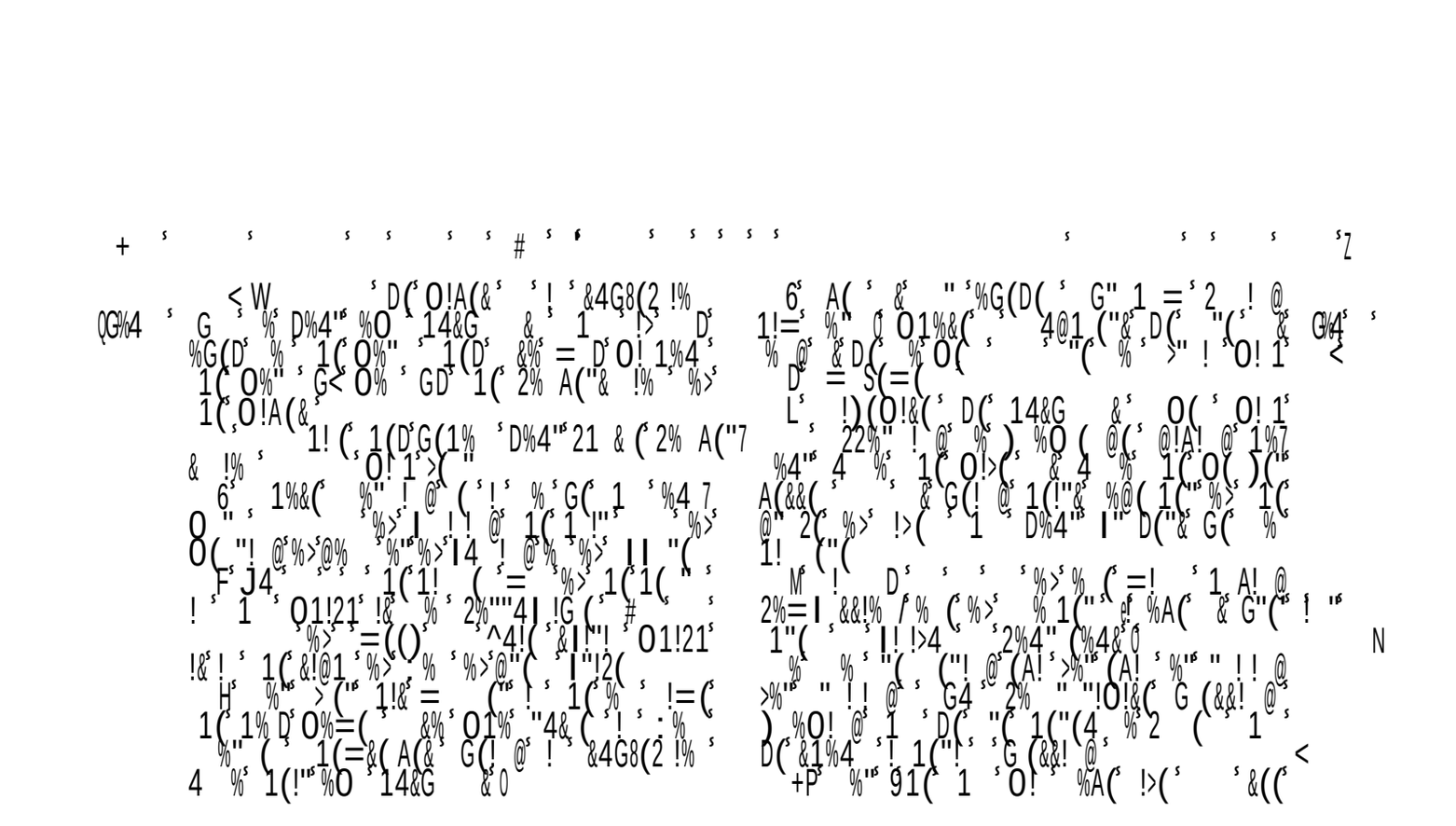




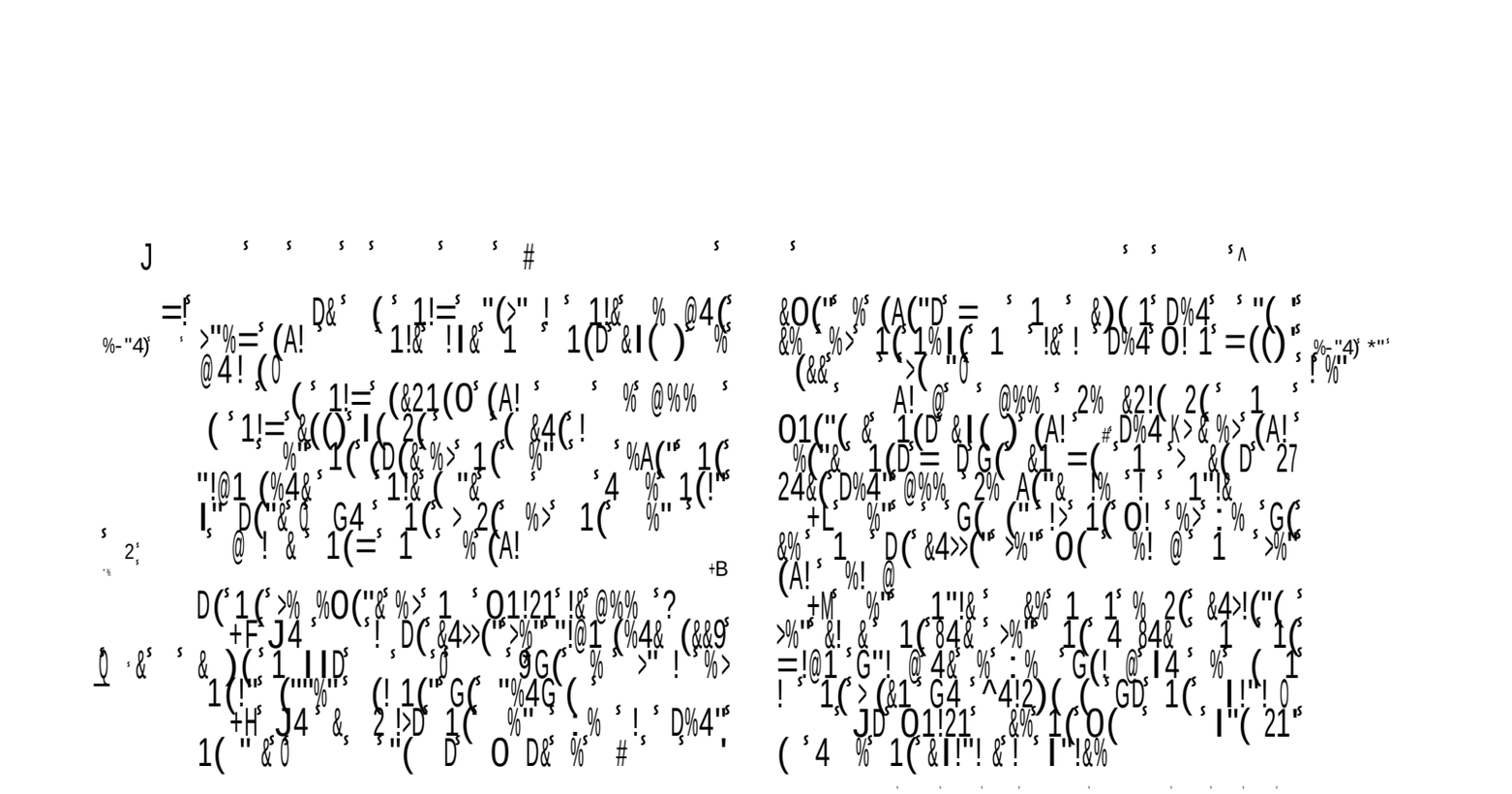








+K<'%((')/%)' "#)/* *R%&K(* "# /2'+)!' B/"' '+ 1"B' *R%()*6')"' -* "42K"B*2#4(*%6'%16' %5'"42' %2)'<4(%2(')"' *10%0* /2'+)'%1+)"' +4##*2 K*2+*<4)'"1+ K%)'*1)(! %16')"' &%.* %1' "K*1' K2"#*++'"1' "#)/* "+K*(!)/* K"+)(*)*((+)/*&' B/%)' /2'+)' /%6' +4##*2*6')"' %)"1* #"2')/* +'1+ "# &%1.'16! %16')"' -2'10')"' "6')/* *1)'(*+ %16' K*"K(* B/"' B*2* '1' -"16%0*)"' +'1' %16' '01"2%1<* ')/%)' *1Y)*2'10' '1)"')/* </42</' - ' -%K)'+&! %16' -*<" &'10' 1*B' <2*%)42*+!)/* ' &'0/)' -* +%5*6! %+ "%/' %16' /'+ #%&'(' /%6' -**1' #"2&*2(! '1')/* %2.'%)')/*)'&* "#)/*#(""6' /(' & %' (,+ *2' A' O -1 # ' #' ' .' !4 .' !-'-/ ' 2 ! " ' `<9' /%)')/* /4+ ' -%16+! B/"' %2* 1")' <"15*2)*6')"' /2'+)'%1') ' - ')/* "+K*(K2*%</*6')"')/*&! $Z% ' - ')/* %&'%-(* -*/%5'"42' "#)/*'2 B'5*+! B/'</;)/* ' %2*)%40/)' - ' /2'+)'%1') ! -*! B')/"4)' %1 ' &"2* K2*%<'/'10! B2"40/)' "1! %16' <"15*2)*6')"')/* #%')/' 2 ' & a &! " ' ' ; 9' OP .*$-(,' 6& 3' %+ ' 3"'1*6' B')/' % 2*5*2*1)' %B* %16' 64* 2*+K*<)' "')/*&+*(5*+ %+ "42 /*%6' -+ ! ((+ /'+ '+ +'&'(%2)")' %4(+ K2*<*K)! K/' 5' ??! 16')/* B'+* +*)/%)' +/* 2*5*Y 2*1<* /*2 /4+-%16 G /* "2'0'1%(*RK2*++'"1+ <"22*+K"16' B')/' *%</' ")/*2' 2 ' ,1 #(/ - H 3* ' ,*%0&0)'('& '0*'4' 3 '*$ 6 %,' ,*%0&0)' ` < d / * 1*0%)'"1' /*2* '+ 1")' %-+"(4)* -4)' <"&K%2%)'5*' /* K"+)(* 6"*+ 1")' %-+"(4)*('#"2-'6')/* B*%2'10' "# "21%&*1)+ "2 <"+)(' %KK%2*(- ' K*2+"1+!)"' B/"+* +)%)* '1' ('#*)/* ' %2* +4')%-(*2 -4)' /* #"2Y -'6+ K2'6* %16' 5%1') ! %##*<)%)"'1' %16' "+)*1)%)"'1! '1' B*%2'10')/*& ' +' '# /* /%6' +%'6! "6' B'((/%5*)/* /'66*1' &%1' "# "42 /*%2)' "21*6' B')/' %<*! %16' 6*('0/)+ &"2*)"' +**)/%)!)/%1' "42 -"6'*+ %6"21*6' B')/' K2*<'"4+ $*B*(+ %16' <"+)(' %KK%2*(' &%3& (*)' 1")')/*'2 %6"21'10 -* B/%)' '+ "4)B%26" 1( )/* B"26' 7"1(' &% ' -* +4KK('*6! %02**%-(')"')/* .1"B1' K/2%+*"("0 ' "# <2'K)42*! %16')"')/* 1%)42* "#)/* K2*<*K) ' "2 B* <%11")' +4KY K"+*)/%)')/* K"+)(* #"2-'6+ /2'+)'%1' B"&*1')"' %6"21')/*&Y +*(5*+ B')/' %KK%2*(+4')%-(*)"')/*'2 +)%)'"1! %1 ' &"2*)/%1' "42 "26' #"2-%6* '+ 6'+<'K(*+)* (%-"42 #"2)/* &*%)/%)' K*2'+/*)/! 3"/1' 5' ' '+ &*%1'10' B%+!)/%)' /* 6'+<'K(*+ B*2* 1")')"' (%-"42 #"2)/* &*%)/%)' K*2'+/*)/"1(642'10')"' *5*2(%+)'10 ('#* 7 16' +"' '1')/* K2*+*1)' <%+' 2) , F / #(1- " &K%2* A '& ' '' ZO A ' %16' +**)/* 1")*)/*2* "' &"6*+) ' '1' "42 B"26+ %16' %<)'"1+ +' *' 4 ' $"'1*6' &"6*2%Y)'"1' '1' "42 %KK%2*(! %16' <"1+*V4*1)(' '1' "42 #421')42* %16' '1' %(("42 *RK*1+*+' #)('"+)' *)*2 %16')' %4(&%.* +"&* &*1Y)'"1! %16' "-+*25* %)')/* +%&*)'&*!)/%)')/* *16"B&*1)+ "#)/* &'16 %$*)/* -*+)' %16' #%'2*+)' "21%&*1)' "' K2*<'+* -"416+ <%1' -*#'R*6)"' 64)'*' "#)/'+ .'16! %16' % 2*%+"1%-(* (%)')46* &4+)' -* (*#)'#"2 <" &K('%1<*;B')/' <4+)"&' /* -*+)' 0*1*2%(24(* '+)"' #"(Y ("B)/* *R%&K(* "#)/"+* "# "42 "B1' 2%1 .' %16' <"16')'"1! B/"' ; %2* %<<"41)*6 B'+*! %16' K246*1)! %16' #2** #2"&' 5%1') ' %16' *R)2%Y 5%0%1<* ' 16')/*+* 2*+)2'<)'"1+ <%11")' -* <%((*6 2'0'6 %16' +* 5*2*! +'1<*)/* ' "1('#"2-'6' % K2"#4+'"1' B/'</' '+ %))*16*6 B')/' 14&-*2(*+* *5'(+' 2 ' *%(&0+ C' $'('& '4 ' 3 '3&, , 0' 0' * ' 3 '3 % 4)' (*)')/*'2 </'*# "21%&*1)+ -* '1')/*'1B%26 6'+K"+')'"1' "# % 3*(/' %16' 0"'"6 /*%2)' '1')/"+* /2'+)'%1' 5'2)4*+ %16' 02%<*+! B/'</' %2* 1")' +4-$*<)')"' <"224K)'"1' -+ ! ((+ O' . ((&0)' 3& ' (*%,' %((('10 /'& - ' %)')(* "# /"1"42! 1")' "# *V4%(') ' 2' ! *0,+ 1')". *1' "# +4-$*<)'"1')"' /'&! %+ /*2 /4+-%16' 2 ' 3& 4/+ ' 0,' % '0* ' % &,' 6& 3' 0/' @ 0 +' /%)' '+! %2* 1") &"5*6 - ' "42 #*%2+)"' 6*1 ')/*)24)/! %+ +/* B%+! #"2 9' +/* B%+ %#2%'6!G *1' R5'''' A: ' ! %+ 3& 4/+ **)/* 1")*)/*2* #2"&' K' M'66*2' /"+* 6%40/)*2+ * %2*! '# * #"((" B /*2 *R%&K(* '1' B*((6"'10! - "(6('%16' <"1+)%1)(' %16' 1")' '1')/"+* B*%.' #*%2+!)"' B/'</' +/* '*(6*6! %16' B%+ 62%B1' '1)"' '1<"15*1'*1<* %16') +' +'&4(%)'"1')/*2*- ' - + ! ((+ 2!)/* :)/ %16')/ 5*2+*+ &% ' - *)/4+ K%2%K/2%+*6' 1')/'+ "4 B' ')24('0'')%)*)/"+* #%&"4+ B"&*1!)/%)' B*2* B'5*+ "#)/* K%)2'%2</+! %16' &")/*2+ "# "42 1%)'"1' "4 B'((%KK2"5* "42+*(5*+)/* 0*14'1* 6%40/)*2+ "# %2%/!)/%)' 64)'#4(+K"4+* "# #%')('#4(-2%/%&! +" ("10' %+ "4 .**K! #'2&')"' "42 64) ! %16' - * 6'+<"42%0*6 #2"&' 1"' '1+)%1<* "# ')' - '%1 ' K2*+*1)' 6%10*2+! %16' '1<"15*1'*1<*+' /(+ O' . .*%,&0)' * 80*6(,) /%)' & '%+ -*<"&*+! B'+* %16' 416*2+)%16'10 &*1! B/"' %2* B*((%<V4%'1)*6 B')/)/*'2 64) ! %16' %+)/* 24(* "# /2'+)'%1') ' 6'2*<)+' $%8& +)& , 0)' 3*0*$% $0 * 3 ' 6& ' '$0 * 3 ' 6 8 %' ('5'10' 41)"')/*&' %(( )*16*2 %16' 64* 2*+K*<)+! %+)/"+*)"B%26+ B/"&! - '2*%+"1' "#)/* B*%.1*++ "#)/*'2 +*R! %((0*1)(* %16' #%Y 5"42%-(* 4+%0* '+ 2*V4'2*6' "# "4 ' -+ ! ((+ P 0,' '4 &0)' 3 &% ' *) 3 %* ' 3 ')% . '* '(& 2' `< d "" .Y '10' 4K"1' % /2'+)'%1' B'#* '1')/* 1")'"1' "# %1' /*'2*++ "#)/* +%&* /*%5*1(' /%KK'1*+ B')/' /'&+*(#! %16' *16*%5"42'10')"' 2*16*2 %1' 41-*('*5'10' "1* +"! - ' <"15*2)'10' /*2')"')/* #%')/ - ')/'+ 5'2Y)4"4+ %16' "-('0'10' <%22%0*)"B%' 6+ /*2')/%)' +"')/*'2 2*('0'"4+ 6*5)'"1+ -* 1")' "#)*&K*2+' /(+ O' 80*6&0)' 3 '/ ' %.' ($ % & *' . ((, ' ` < d *&*&-*2'10' %16' <"1+'6*2'10')/* *R%&K(* 0'5*1' "4' - ' /2'+)! %16')/* "-('Y 0%)'"1')/%)' -*+ "1' "4' %+ /2'+)'%1+ %)) ' 5' CC ')/%)' +"' - ' 6"'10' 0"'"6 %16' -(*++'10' ")/*2+ "4' &% ' 2*<*'5** %' -((*++'10' #2"&' '6' '1')/'+ %16' '1' %1")/*2 ('#* ! %+ ! *0,+ A ' W*&' 3 ' 3 6&(('(* ' '(& C' /* K"+)(* /*2* 420*+ '1' #%Y 5"42 "#)/*'5'2)4*+ 2*<"&*16*6 - ' /'&!)/%)' - ')/*+*)/* <"&Y #"2)+ "# ('#* B'((-* +*<42*6! 5*2' A ! AA ')/* #%5"42 "# "6' *1Y 0%0*6! 5*2' A9 ' %16')('* &%('<* "# &*1' '1' % 02*%)' &*%+42* 6'+Y %2&*6! 5*2' ! ` < ' %204&*1)+ "# 02*%)' B*'0/)' %16' '&K"2)%1<* ' ! %+ ! *, ,%&,) + +' '# /* /%6 +%'6' *+'6*P! $.3' &** .1*++ '+)/* -*+) *RK*6'*1)')"' +*<42* "42 5P<* %16' V4'*)' B')/' &*1! %+ B*((8%+ K2")*<)'"1' %16' #%5"42 B')/' "6 ' 0' 03*- +



AA '3& .3 & '&(` < d -+)%'1'10 #2" & %((+'1! %-"416Y
'10 '1 B"2 . "# &*2< ! +**.'10 %16 K42+4'10 %((K*%<*%-(*1*++
B') / %((&*1 %+ ! *0 ,+
A? 0 , 6 3*' & 3 3 6 &((3 % / *$ ' & / ' 3 ' *((* 6 % ' * ' 3 '
6 3&.3' & ') * * , ' +' '# / * /%6 +%'6 ' (" 10 %+ "4 <%22 ' "42Y
+*(5*+ 02%<'"4+(' %16 B'+*(! '#) / * / *%2)+ "# "42 *1* &'*+ B'((
1") ' -* +' #%2 B2"40 /) 4K"1 %+) (" (*5* %16 %## *<) "4! *) ') / *'2
&"4) / + B'((-* <("+*6 %16) / *'2 /%1)P &%1%<(*6 #2" & -2*%.'10
"4) '1) ' %1 ' "4)2%0*"4+ 2 &+ "2 %<) '"1+ "# "K*1 / "+) (') ' +'
) /%) "4 +/%((*1$ ' "42 K*%<* B') /) / * & '1 +" &* &*%+42* '
/ "40 /) / * ' &K%1 "4 1 "0"" 6! *) / * ' +/%((6' "4 1 /%2 &'
-+ 0 , % *0+
AC' O ' 4 '0 * ' % &, ' * ' 3 &% % % * % /%)+"*5*2 6%10*2+ "4
%2*) /2*%)*1*6 B') / ' - ') / * K" B*2 "# "42 K*2+*<4)"2+! - * 1")
%#2%'6 "2 6'+)42-*6 B') / ') ' 2 '! *0 ,+ / * K/2%+* + %1
*-2%'+ &! & *%1'10 ' * 1") %##*<)*6 B') /) / * #*%2 B / '</) / * ' *1Y
6*%5"42) 2%'+* '1 "4 - ') / *'2) /2*%)*1'10+ ' +&%/ 0%5*) / '+
*R/ "2%)"'1) ') / * +2%*(')*+ B / *1) /2*%)*1*6 B') / %1 '15%+'"1
- ') / * ++ 2'%1+! +%'%/ 5''' ' A9 2 '5 .80&) 3 +
A: ' $ ' 0. & / 3 *% , ' * , '&0 ' / *$%' 3 % 'F/ 4) '0'5* *
41)" "6 '1 "42 / *%2)+) /%) / "1"42 B / '</ '+ 64* 41)" ' &! '1
)24+)'10)" '+ K2" &'+*+! %16 +)*%6#%+)(' 2*('10 4K"1 '+ K2"Y
5'6*1<* -+ ! ((+
/%) ' B / '</ /2'+)'%1+! B / *1 ' K*2+*<4)*6 %16 '1$42*6! /%5*)"
6"! '+ 1"))" (*) ' %1 ' "#) / "+* 6*+K"16*1<'*+ "5*2B / *(&) / *'2
+K'2')+! B / '</) / *'2 "K$H2*++"2+ %2* (%- "42'10) " 62'5*) / *&) " '%16
B / '</) / * ! B / " /%5* 1"1* -4) ' /4&%1 / *(K+)" 6*K*16 4K"1!
#'16 ') ' &K"++'-(*) " -*%2 4K %0%'1+) ' / * ' &4+) Q +%1<) '# ') / *
"26 "6 '1) / *'2 / *%2)+) /%) '+!) *+) '# ') / *'2 -*('*#"# '+ 0("Y
2'"4+ %))2'-4)*+) " %(( ) / * B"2(6 ' 16) '+ '+ 6"1*! B / *1) / * '
6*K*16 4K"1 '+ K" B*2) " *R)2'<%) *) / * &' "4) "# 6'##'<4()'*+ ") / *2Y
B'+* '15'1<'-(* %16 +" #(*) "! %16 2*+) 4K"1 ' &'%+ % +42*
+%1<)4%2 ' B / *1) / * ' 2*#*2) " '+ B'+6" &'%16 $4+)'<*) / * +*%Y
+"1 %16) / * &*) / "6+ "# *R*<4)'10 5*10*%1<* 4K"1) / "+* B'<. !
*6 &*1! B / " +&') * 6"B1 '+ K*"K(* %16)2"4-(* '+ #%') /#4(
"1*+ ' B / *1! 1") B') / +)%16'10 %1 ' 6*(% + '1) / * %<<" &K(+ / &*1)!
) / * ' -4" '4K) / *'2 +'1.'10 +K'2')+ B') /) / * <*2)%'1) "# '+ K2"Y
&'+*+ %16 (%+)(! -*) / * *5*1) "#) / '10+ %) K2*+*1) B / %) ') B'((!
B / *1) / * +)*%6#%+)(' %6 / *2*) ") / *'2 64) ! %)) / * *RK*1+* "# %((
) / %)) / * B"2(6 <"41)+ 6*%2! %16 B'((1") -* K2*5%'(*6 4K"1 #"2
%1 ')*21P+) " '1<42 '+ 6'+K(*%+42* *1 "#) / '+ 6'+K"+') "'1 6"
'&) 24* / "1"42 %16! %+) / * &% 2*%+"1%-(' / "K*) / %) Q '+
* *+ B'((-*G %(B% + Q "5*2) / *&! %16 '+ *%2+ "K*1 41) ") / *'2
K2% *2+!G +' RRR'5 A: ! +" %2*) / * ' 1') / *)24* #2%&* "# &'16 #"2
"##*2'10 4K) " '&) / *'2 K2% *2+ ' *+K*<%((') / * K2% *2 "# "42
/42</ ! '1 / *2 "((*<) #"2) / *#) / '&6% '%#)*2 2'1') !) / %) Z ') / *
<"42+* "#) / '+ B"2(6 &% ' -* +" K*%<*%-('"26*2*6 - ' '+ 0"5*21Y
%1<*!) / %) '+ < / 42</ &% '$" #4((' +*25* '& '1 %((0"6(' V4'*)Y
1*++!) / 2"40 / 3*+4+ / 2'+)'"42 "26 G 0 03*- +
O O 4 '% , / (6 / ' ` ' / * K2"K*2 &*%1'10 "#) / * K"Y
+)(* + 6'2*<) '"#)! %16 ')+ <"11*R'"1 B') /) / * K2*<*6'10 %65'<*! &%
-*) / 4+ +)%)*6 '5* * 41)" "6 '1 "42 / *%2)+) / %) / "1"42
"'! ' =

B / '</;'+ 64* 41)" ' &! '1)24+)'10)" '+ K2" &'+*+! %16 2*K"+'10
4K"1 '+ K2"5'6*1<*! - %+)*%6#%+)<"1#'6*1<* %16 2*('%1<*' %16!
+'1<* *('5*%&"10 / *%) / *1+ %16 K2"#*++*6 *1*&'*+)") / * "+K*(!
-* 1") * 6%41)*6 B') /) / *'2 "KK"+)'"1+ %16 K*2+*<4)'"1+ ' -4)
-* 2*%6 ! B / *1 * %2*) / *2*41)" 64(' <%((*6!)" &%. * K2"#*++'"1
"#) / %))24* #%') / %16 2*('0'"1! B / '</ * / %5* 2*<*'5*6 -4) (*)
1") / '+ -* 6"1* '1 %)42-4(*1) %16 +*6')'"4+ &%11*2! -4) B') / '
%((&**.1*++ "# +K'2') ! %16 2*5*2*1<*) ")(%) %4) / "2') ! B / *2*-
* %2* <%((*6) / *2*41)" -+ ! ((+ 1 % &"6*+) %16 / 4&-(* B% !
4K"1 *') / *2 K2'5%) * "2 K4-('<. *R%&'1%)'"1 / 8+
+ L ' & ' 3 ' 6 &((* ' *, '4 ' '"! /* K")+)(* %66+) / '+) " + / *B!
) / %)) / * B'<. *6 <%1 6" 1" *5'( ) " -*('*5*2+! -4) - ') / * K*2&'++'"1
"# "6 2 '5 .80&) 3 +
AJ' W*%' 3%& ' (* 3 3' *0. ' $ % , ' * %' &0 ' ` < $ 1 ') / *
+4##*2'10+ "# / 2'+) B* / %5* % <(*%2 K2"'"#!) / %) +4##*2'10+ %2*;71"
*5'6*1<* "#) / * B'<. *61*++ "#) / * +4##*2*2! 1"2 "#) / * -%61*++ "#
) / * <%4+* #"2 B / '</ / * +4##*2+ "2*"5*2 '1) / * 2*+422*<)'"'1 "#
/2'+) B* / %5* %)3"15'1<'10 K2"'"#!) / %)) / * +4##*2'10+ "# 0"'"6
&*1 %2* 1") '1<"1+'+)*1) B') /) / * K*2#*<) '"1+ "# "6 '#"2 *
B'((2*B%26) / *& 'B') / %-(*+++*6 2*+422*<) '"'1 #2" &) / * 6*%6! %<Y
<"&K('+ / *6 %#)*2) / * *R%&K(* "# / 2'+) + 2*+422*<) '"'1 / *2*Y
#"2*) / * K"B*2 "# "6! 5'+'-(* '1 / 2'+) + 2*+422'*<) '"'1! %##"26+) "
%((B / '"(*+) / *'2 ('5*+ #"2) / * "+K*(% +42* 02"416 "# <"1+"(%Y
) '"'1 %16 / "K*) / %) "6 B'((2%'+*#) '*& 4K %) / * (%+) 6% ' 2 '
5 .80&) 3 +
! 3 '7$ ' * %' 3 ' 07 B) '+) / * 6*+'01 "#) / '+ %16 +'&'Y
(%2) *R)+ "# <2'K)42*! B / '</! 6*<(%2*) / * K*2#*<) '!'11"<*1<* "#
/2'+)!) K '1#"2&' 4+ / "B' %<<*K)%-(*) " "6 '+ +%<2'#'<* B%+'
0 03*- +
3 ' 3 ' &) 3 ' 4%&0) ' $ ' * "6!? /%) B / *1 B* B*2*
%('*1+ %16 *1*&'*+) " "6! * &'0 /) 2*<"1<'(* 4+) " '& ! %16
0'5* 4+ %4) / "2') ') " %KK2"%<' / ' & ' 2 '! 0 , +
O O '4 &0) '-$ ' *' , 3'&0' 3 78 3 '4$ 'K$&.8 0 , '4 / ' 3 ' -&%& ' ?
'10 K4)) " 6%) / '1 '+ / 4&%1 -"6 ! '1 2*0%26 "#) / * +*K%2%Y
) '"'1 "# '+ +"4( ) / *2*#2" &'#"2 %) '& *' -4) -*'10 V4'<. *1*6 %16
2%'+*6 4K) " %1 ' & &"2)%(('#*! - ') / * K" B*2 "# #('+ '5'1* K'2')
"2 '5'1') ' -+ ! ((+
/%) K'2')! - ' B / '</ /2'+) B%+ V4'<. *1*6! '+) / %) - ' B / '</
* B%+ 2%'+*6 #2" &) / * 6*%6!) / %) '+!) / * K" B*2 "# '+ '5'1') '
%+) ' %4(*RK2*++*) / ') ! Q / "40 / ' * B%+ <24<'#*6) / 2"40 / '
B*%. 1*++! *) ' * ('5*) / ' - ') / * K" B*2 "# "6!G 9 "2 R''' ' C'
-+ % *0+
' / ' 6 3&.3' (* 3 ' 6 0 ' 0 , ' -% .3 , ' $0 *' 3 ' -&%& ' &0 ' - %&E
*0 ` ? ') / * K" B*2 "# B / '</ '5'1* K'2') "# '+! ("10 -*#"2*
'+ &%1'#*+) ''" '1) / * #(*+ / * <%& *) ") / * "(6 B"2(6 '%16 -
) / * &"4) / "# "%/ !) / %) Q K2*%< / *2 "#2'0 /) *'4+1*++!G+K%. *) ") / *&'
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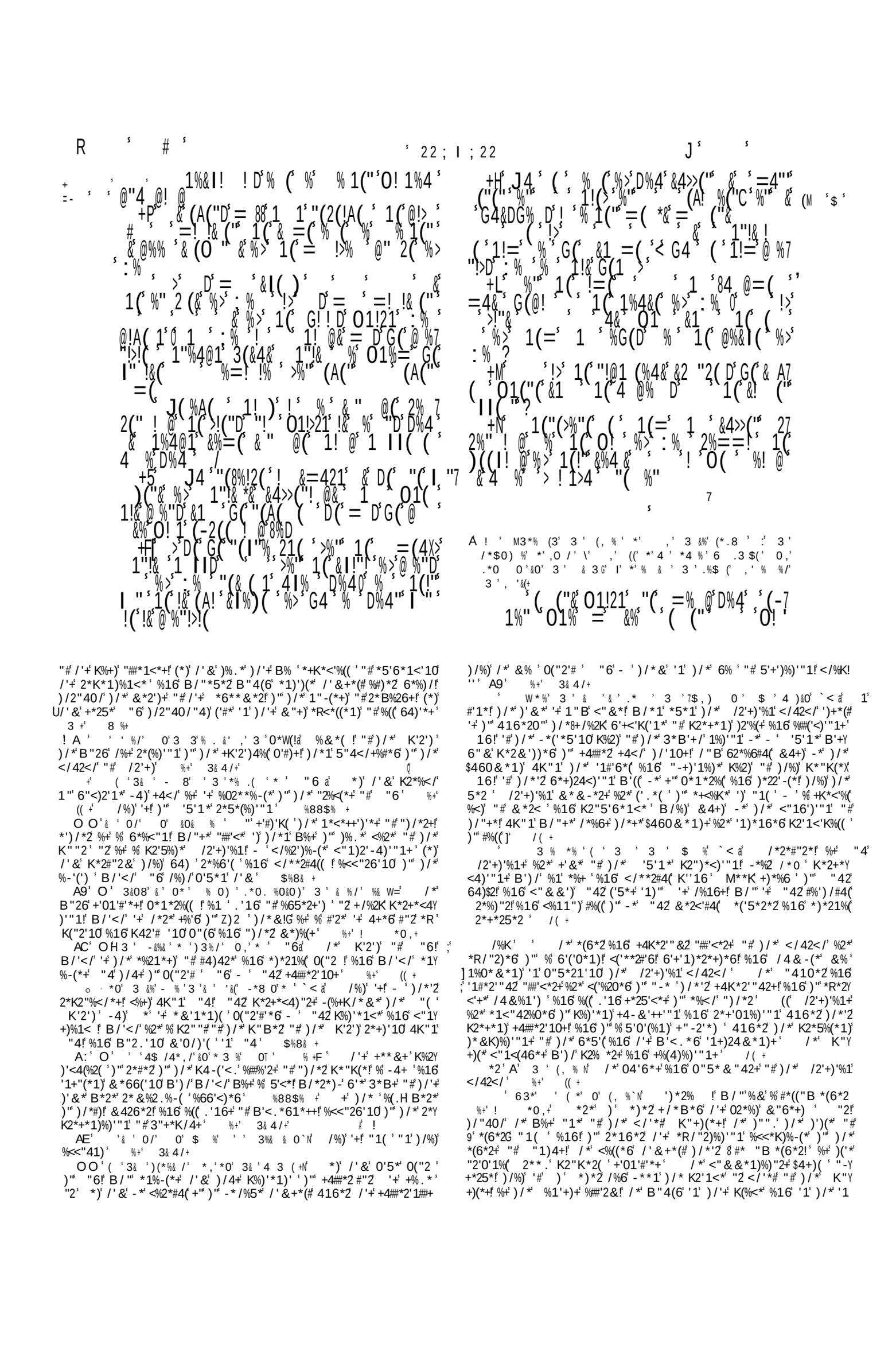

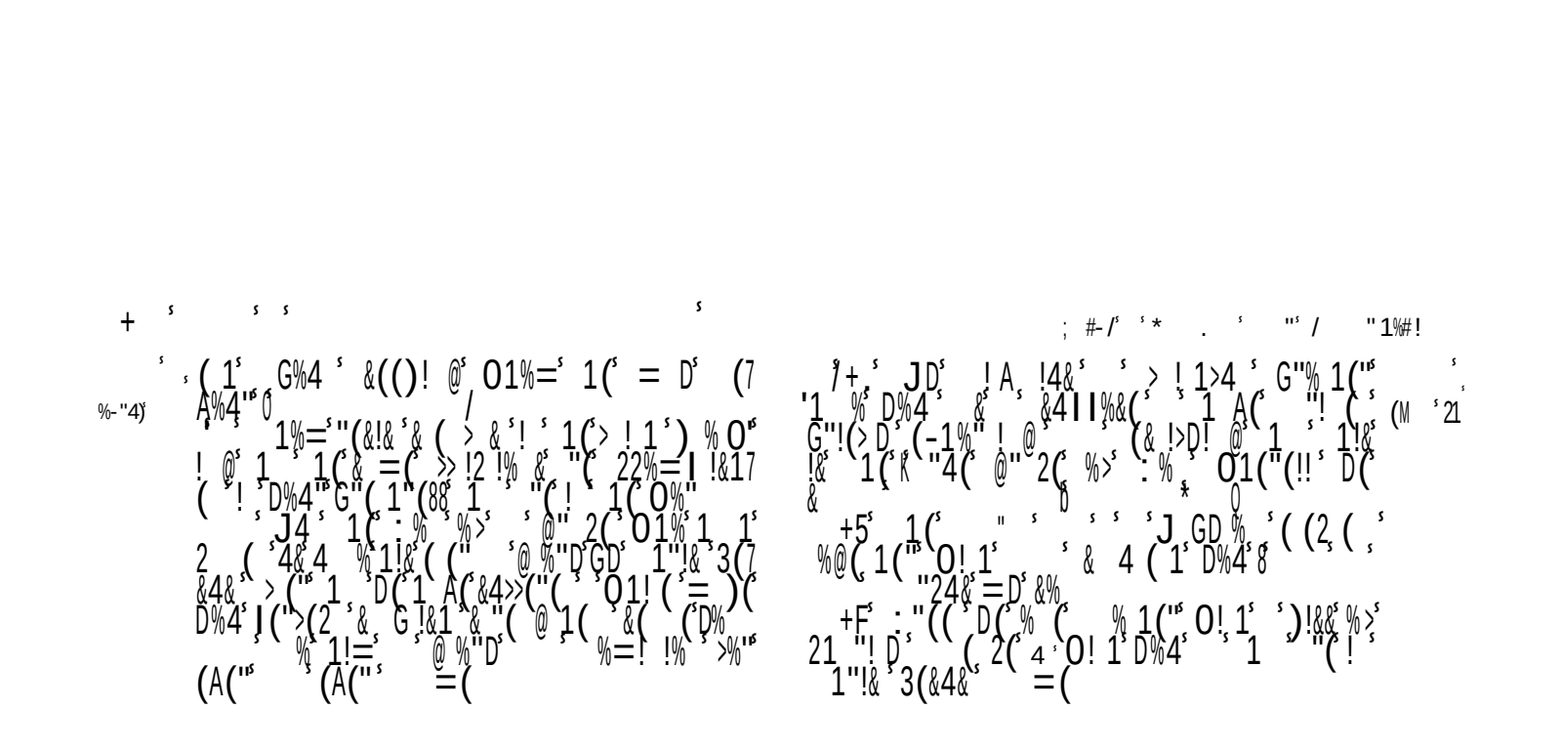

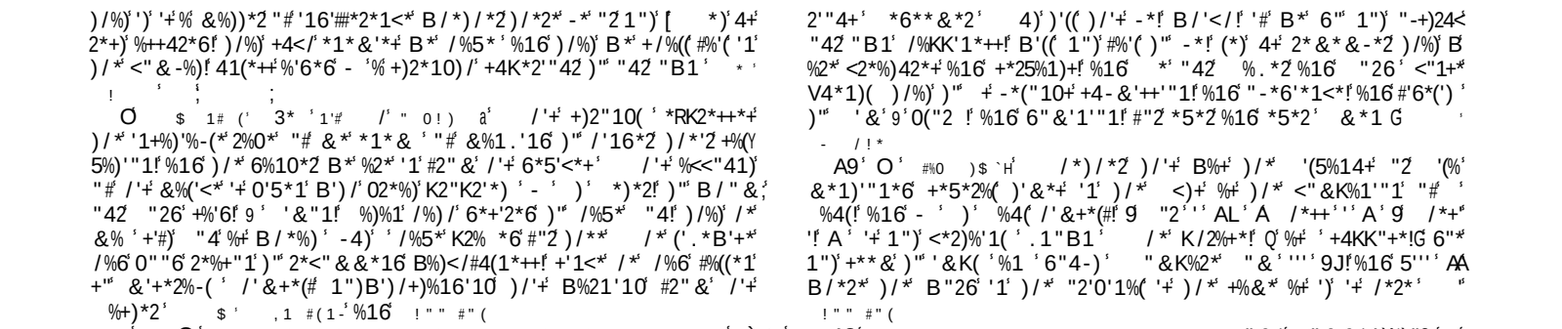

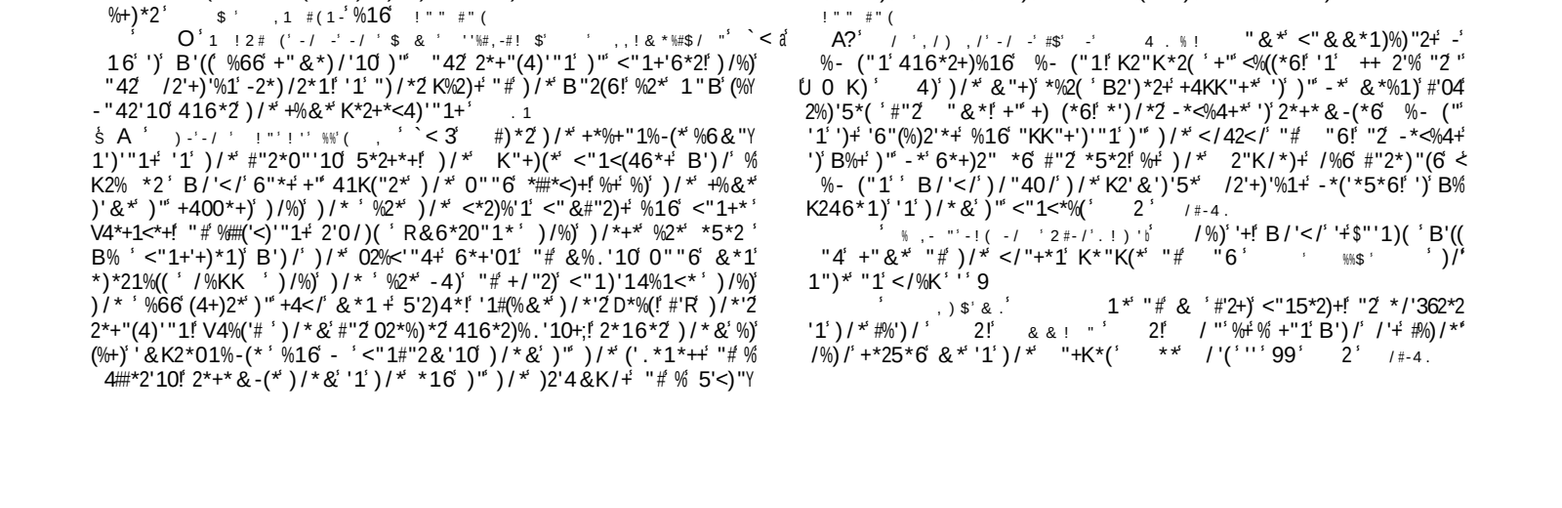

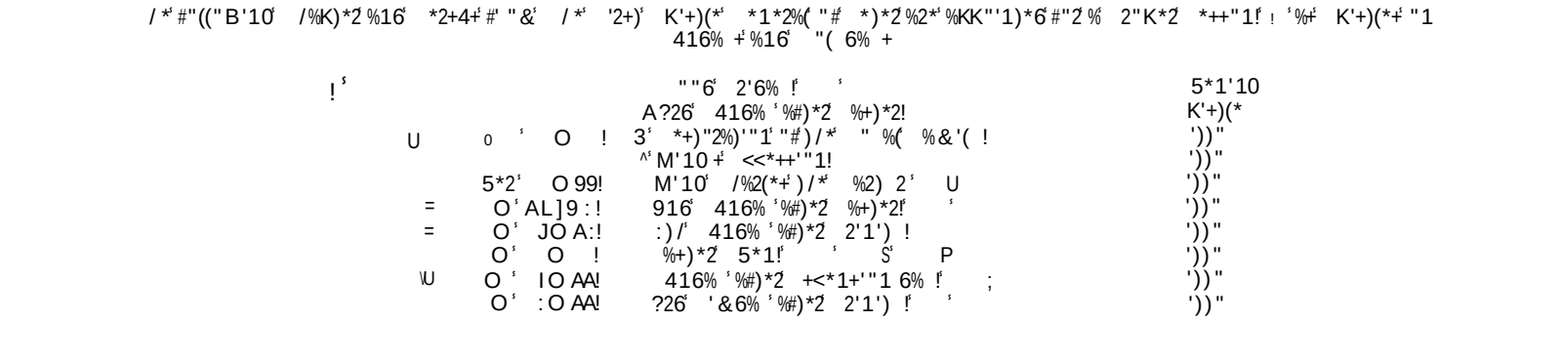

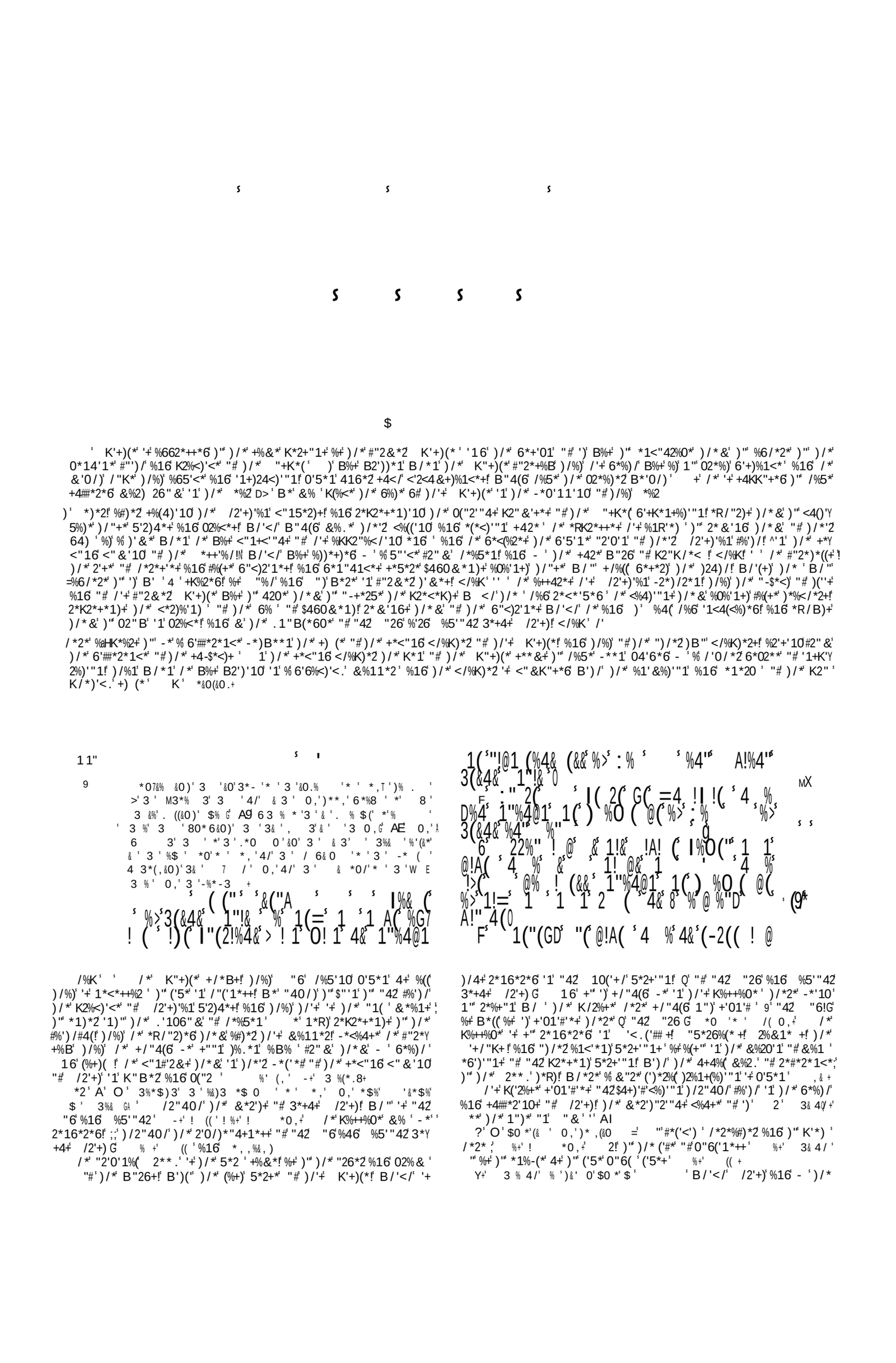

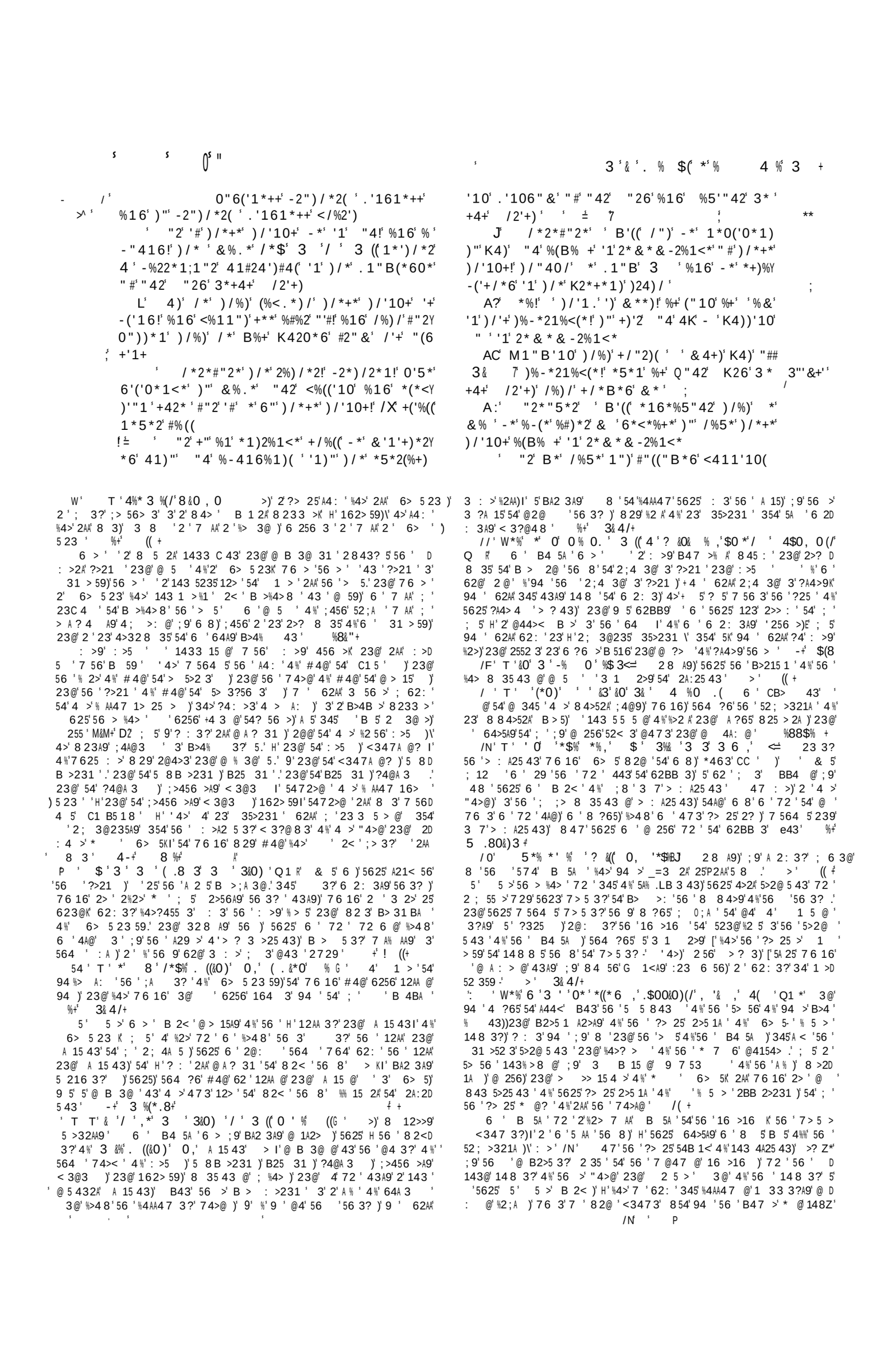

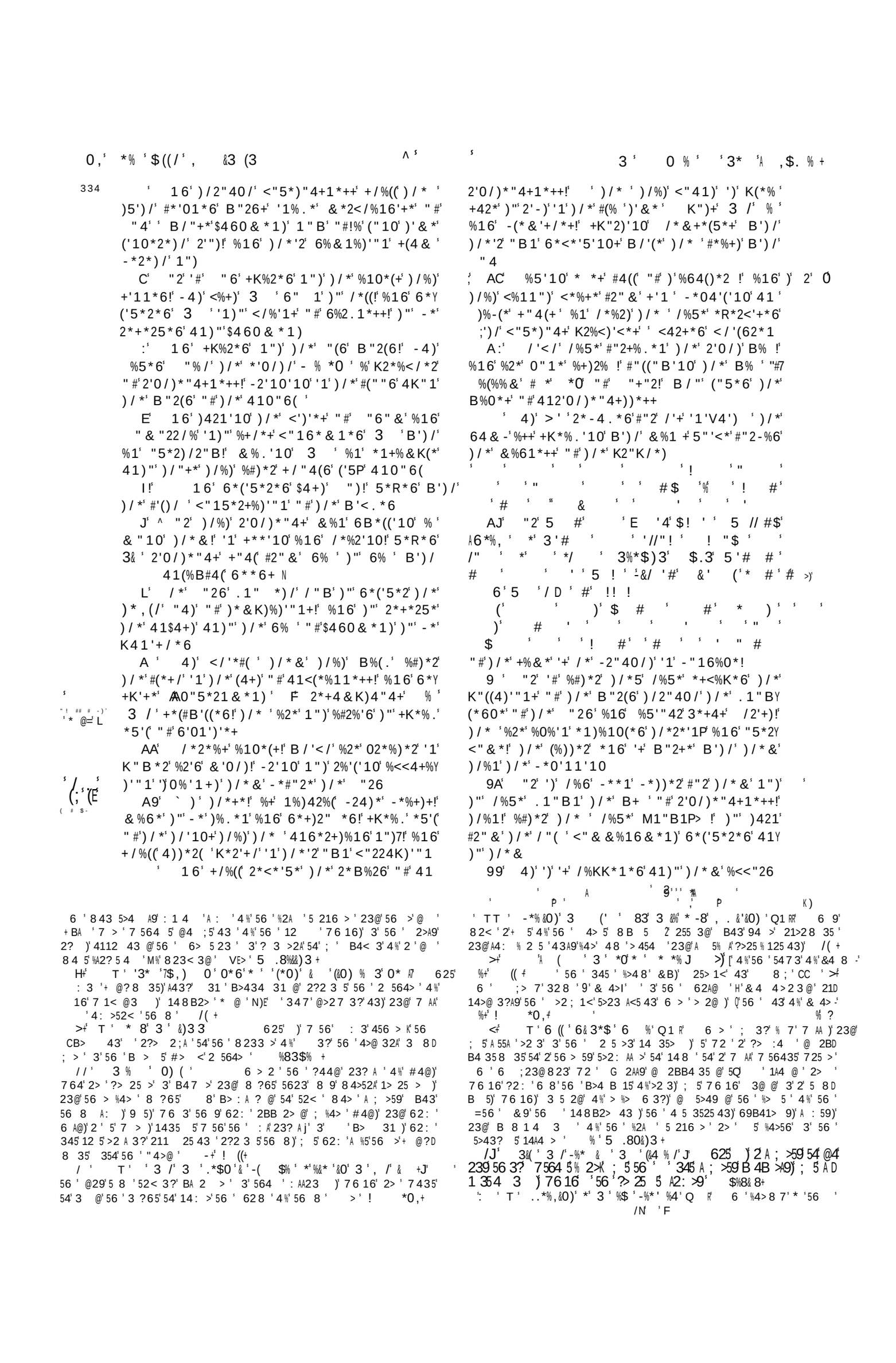

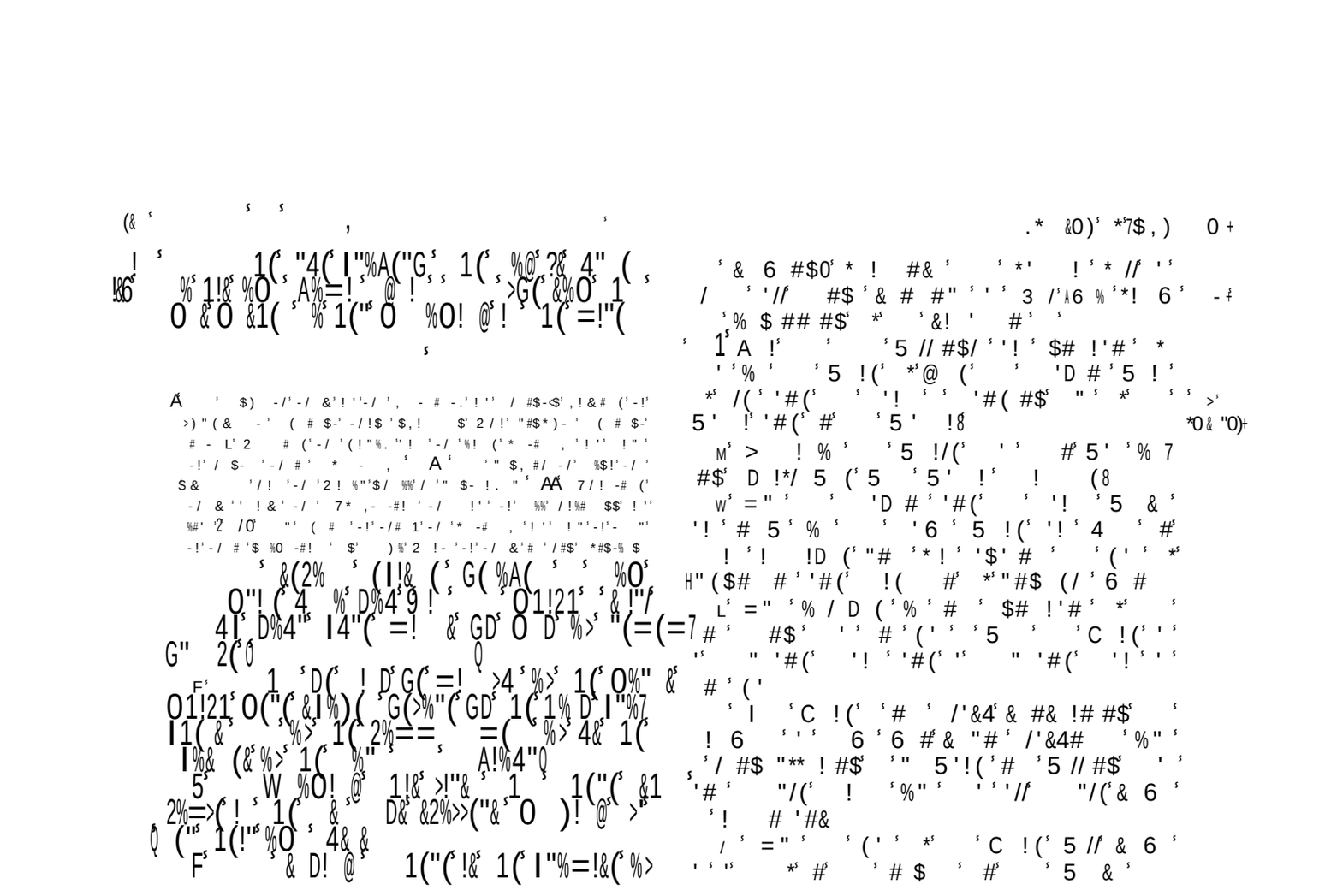

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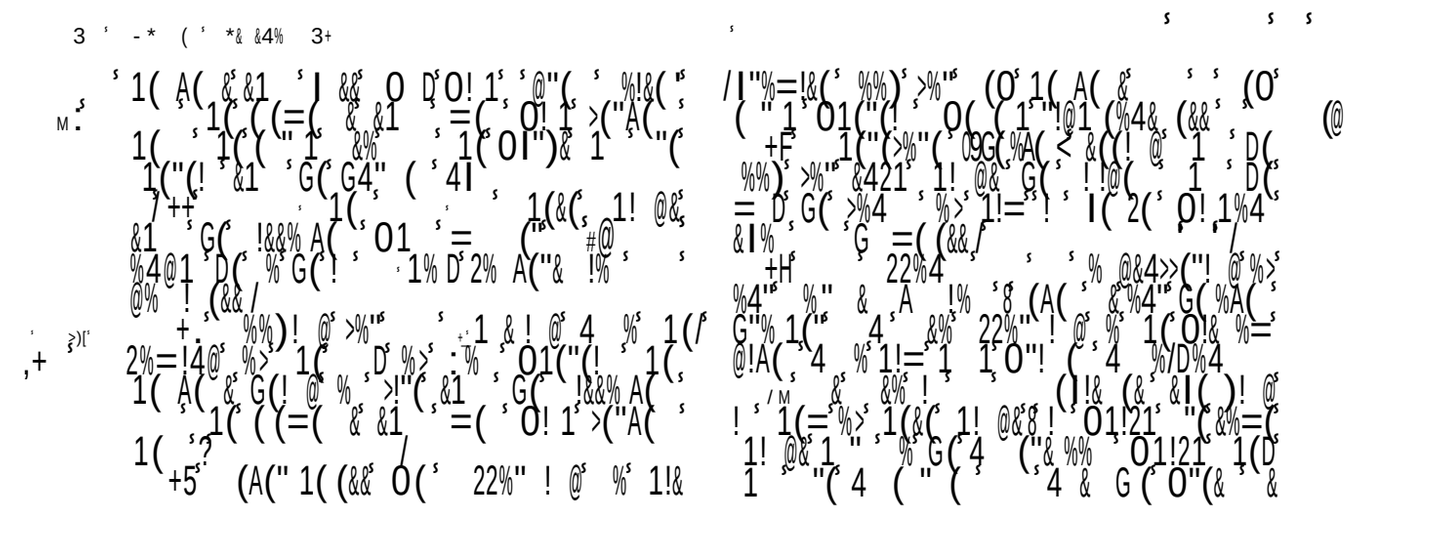

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A59' 4%)' 7 ' 62AA' 345' 3 @' 54' 62: ' 239' 2BB> 6 3 43)' 4>' % 2>' 4 >' 143@ 5 43' B43' 2114 35' 4%' 56 8)' 7 6 3' 7 ' 148 ' 54' @ K ; 5' 7 ' 329' 7 56' 143% @ 31 ' 2BB 2>' ; %4> ' 56 ' 5> ; 32A' 4%' 4 >' "4>@.' 23@' CB 15' 4 >' B2>5' 3' 5625' 14 8 %4>52 ; A ' 35 31)' 7 6 16' ' 7 ' 25' 56 ' A2 5' @29' B>434 31 ' 54' 2AA' '5> ' @ 1 BA ' 23@'%4AA47 >)' B' 4 8)' 9 ' ; A @' 4%' 9' '256 >)' 36 > 5' 56 ' < 3?@4 8 ' B> B2> @' %4>' 94 ' %>4 8 ' 56 '%4 3@25 43' 4%'56 ' 74>A@)I' 255 ' CC: ' N' 4-=' 3 %-+ / ' T ' 0 ' 3 ' 0 ' 0,' ' 0 6' % 3&7 7 ' 23@' : >A2 5 3?' 2 ; 4@)' 7 6 16' : 3 ' 8 >19' 7 AA' 56 3' 4B 3' 54' 4 >' 3>2B5 > @' : 7)' 354' 7 6 16' 5' 7 AA' 143@ 15')' 23@' 3' 7 6 16' > ?65 4 3)' B >% 15' 64A 3)' 23@' % A 1 59)' @7 AA 56 ' %+' *, , %&,) + >=' L ' 3 3' 6 %& 0' $0 *' / *$ 6 ' B 5A ' ; 3?' 7 > 55 3' 54' 564 ' 54' 7 6 4 8 ' 56 ' % > 5' B 5A ' 72 ' 35)' 56 ' B > 43 ' 54' 7 6 4 8 ' 5' 2 A' 7 >45 ' 1431 >3 3?' 56 ' A43? %% > 3?' 4%' # 4@' 7 > ' 56 ' * 7 6' 23@' # 35 A ' 6> 5 23 ' 3' 435)' # 2A 25 2)' 2BB2@41 2) ' 2)' 23@' & 5693 2 ' 114>@ 3?A9' 7 '<347 ' 6 ' 7 >45 ' 54' 56 ' B6 D 23)' B6 ' ' T 0 .E' 54' 56 ' 4A4 23)' 4A ' ' / F .E' 23@' 54' 8 4569)' /' 8 ' ' N .E' 56 3? 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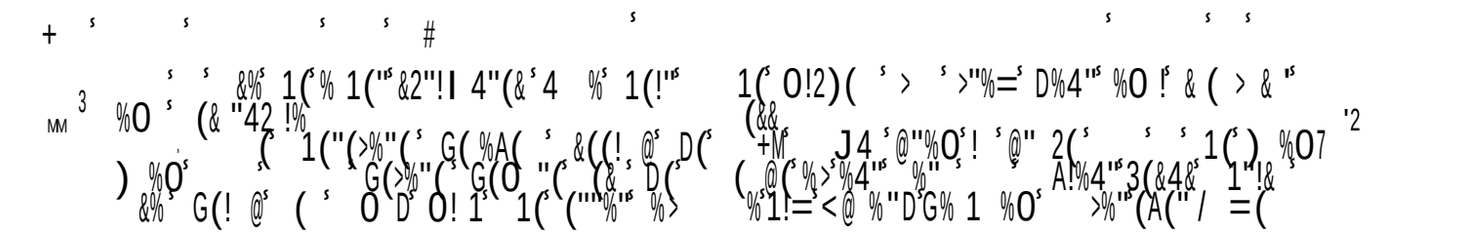

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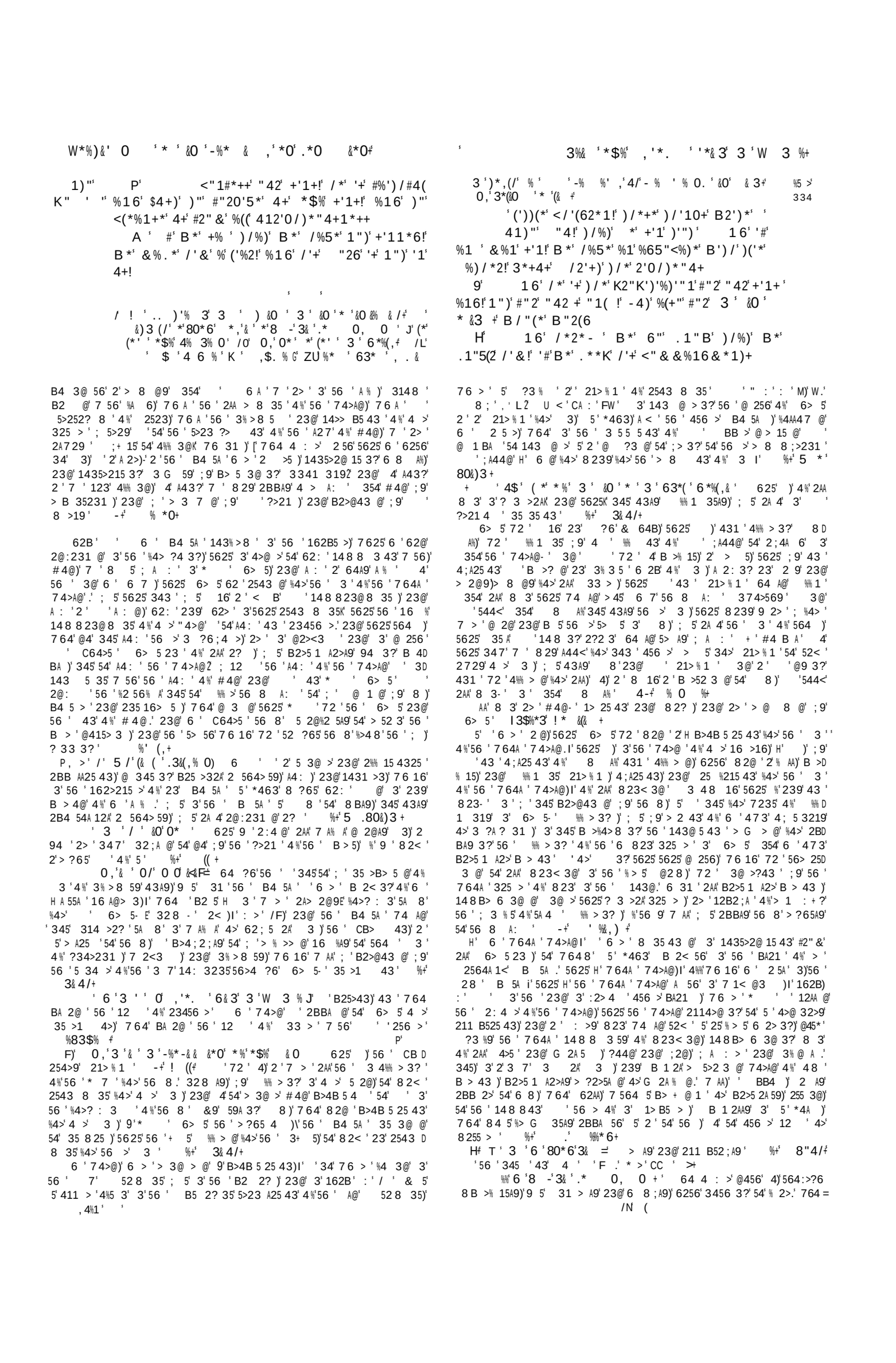

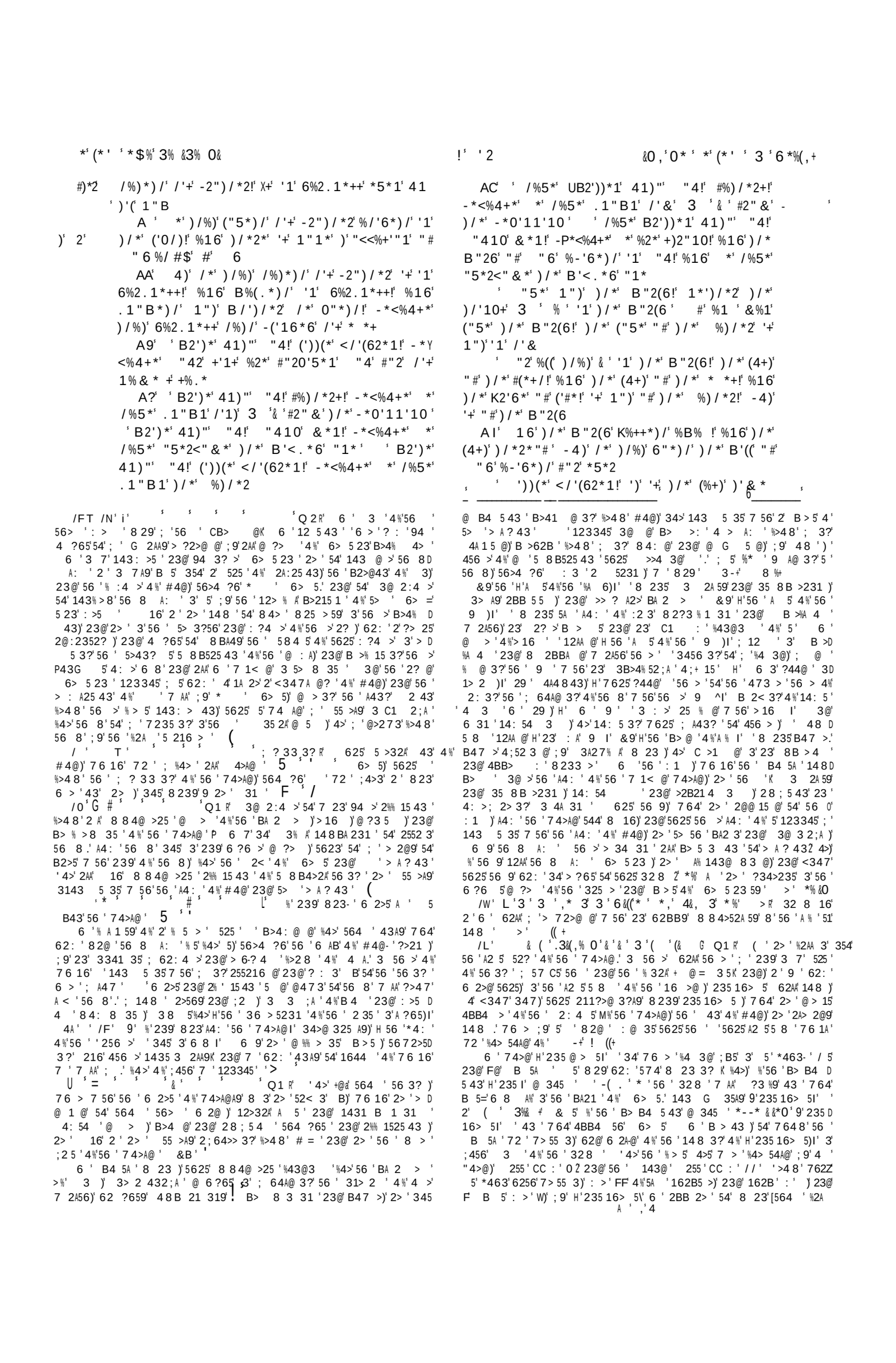

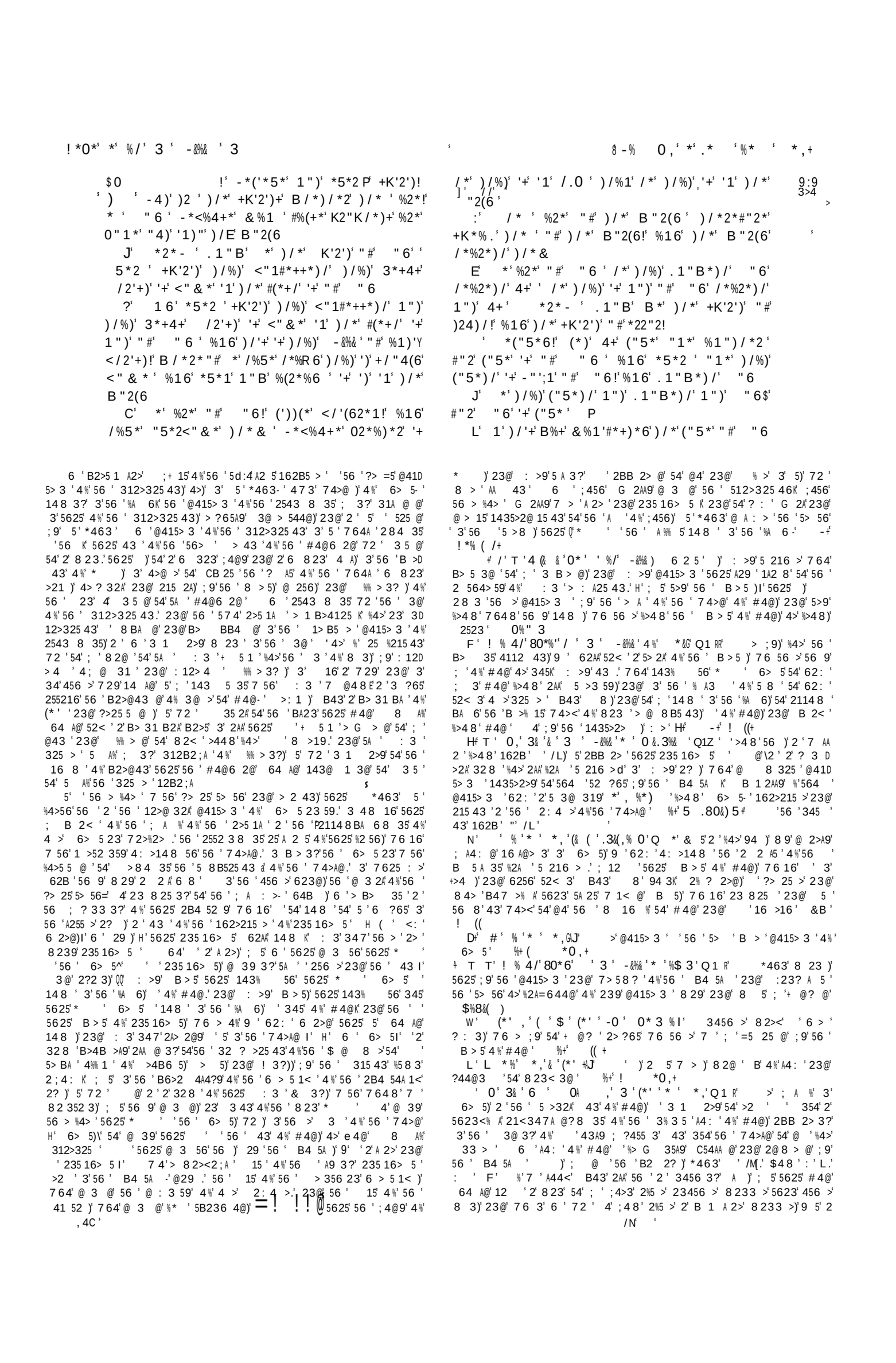

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5'B>4@ 1 ' 6 ' 8 564@' ' @' 3'56 '64A9' 1> B5 > K' 23@'
5625'7 '829'345' 8 52< '56 '325 > '23@' C5 35'4%'56 '@ 59'4%'
A4: 3?' #4@)'2' > A ' 'B>4B4 @'54' ' ;9'76 16' 7 '829' <347'
76 56 >'7 'B>215 ' 5.' 23@'7 '2> '2 > @5625'2'12> % A' 3@ 2D
:4 >'54'A 2>3'56 '7 AA'4%' #4@)'23@'54'215'2114>@ 3?'54' 5)' '2' %D
%1 35'B>44%'4%'4 >'A4:

6 'A4: '4%' #4@'@%% > 4' 8 16'%>48'56 'A4: '4%' 3 ;A'4;D
+ 15)'23@'%>48'4 >'456 >'B2 43)'5625' 5'123'62>@A9' ;'12AA @'2'
B2 43' 3'56 '28 ' 3 ' 3'76 16'56 9'2> ' 4'12AA @' 5'@%% > '
3'56)'5625' 5' '25'% > 5'>2 @)'23@'2%5 >72>@ '< B5' B)';9'> 2 43'
5' '56 > %4> '2'> A?4 '62; 5'23@'2' :>5)'76 16'34'456 >'B2 D
43')' 3A ' 5'6256'#4@'23@'8 4>2A 59'23@'> A?43'%4%' 5'4;D
+ 15 ' 3'56 '2A 4' 5'@%% > '%>48'56 8)'5625' ; 3?' ;456'B>4D
@ 1 @'23@'B> >: @' ;9'> 2 43)' 5' '2' 4; >'23@' 84@ >25'2%D
% 15 43)'2114 8B23 @'7 56'34' ;A 3@' 8B 5 4 59)'34'> 5A ' 3D
2 3)'34': 4A 35'148 845 43'4%'8 3@)'A < '456 >'B2 43 2'23@)'
2' 5'> 56'345'54' 56 ' 28 '6 ?65'7 56'56 8)' 4' 3 56 >'@4 ^' 5'
3<' 2 'A47'25'456 >'5 8)'; 5' 6 7 ' 5 A%' 3' 23' 3 %4>8' 23@'
@25 'A4: '4%'>?65 4 3)'4%' : >9'56 3?'5625'#4@'2BB>4:

48 ' B > 43)345'' @ A9' 143 @ > 3?' 56 +' 31 > A9'@ >' 54'
BA 2 '#4@)'23@'12> % AA9' 3@ 2:4 >'54'A 2@'2'?44@'A % .' 23@'9 5'
48 5 8 '2>'2%>2 @'5625'56 9'62:'34'A4: '%4>'#4@)'; 12 '56 9'
CB > 31 '345' 3'56 8 A: '5625'72>856'4%'2%% 15 43)'54'76 16'
456 >' B> 5 3@)'23@' 76 16' ' CB> @'23@' > G > @' 3' 48 '
;44<'4%'@ :45 43' 6 9' 829' A 2>3'%>48'56 ' 1> B5 >)'5625'
76 >' 56 >' '4; @ 31 '56 >' '2A729 'A4: 2'23@' 25' 764 4D
: >'@ A?65 ' 3' 64A3)'23@'+ 5 1)'23@' ?44@3)'23@' 8 >1+ '
23@'5> 56)' 829'> 2 432;A9'1431A @ '5625'6 '6 2>5' '> ?65'5472>@ '
#4@

56 >)'A44< 3?' B43'56 'A4: '4%'#4@'2 ' B43' 2'8 > 'B2 43)'
2'@ B4 543'4%' 8 3@'B>4@ 1 3?'@ :45 43'23@' 3@ 3?'56 >)'62: '
C15@' 3' 56 8 A: '2'6 ?6'U 2A'23@' 2%% 15 43'[%4>'#4@)'23@' 2'
%>8'B > 2 43'5625'56 9'7 > ' '%4:4 >5 K' 23@)'62: 3?'@43 '
56)'62: '564 ?65'56 8 A: '2>> : @'54' 6> 523'B >% 15 43.'
76 A 5'25'56 ' 28 '5 8 '56 9'62: 'B >62B ' ; 3' 3@ >'56 '@4D
8 3 43' 4%' :A'62; 5)'23@' 2@@ 15 @'54'7>256)' 82A1)'14: 54 D
3)' 3 62>52;A 3)' 1 3 4>4 3)' 3+ 51)'B> @)'28; D
543)' 3 2A59' 6 ' 5>23?' 8 C5 > '4%' 69B41> 9)' :1)'23@'
356 2 8)'6256'; 3' 148 843' 3' 2AA'2?)'23@' : >'7 AA' ; '4'
6 >'2>'2A729 '564)'764 '> A?43'23@'@ :45 43')'54' '56 '
74>@'4%' 5' 2 A)\' 4 3@ 3?';>2)I'4>'1A284 >'23@' 143%@ 31 .'
76 A 5'5> '?44@3 ' '84@ 5'23@' 32% 15 @)'23@' 5 216 '8 3'
54'82< 'A '34)'54'A :'84>'643 5A9' 4'B> >: ' '%>48'
16'@ A 43)' 6> 5'6256'54A@')'5625'7 '64 A@' 56 >'< B'
148 823@8 35)'4>'345'B> 5 3@'54'A4: ' 8 .' 23@'5625' 5' ?3 % '
3456 3?'54' 29'54' 8)'H'"4>@)'"4>@)I'23@' 345' *' ,*' 7625' '
>G >

56 >'(*' ' *6 %, ' *,'5623'56 '56 ' 1> B5 > '<347'345'K
56 9'3 :'> 148 8 3@'5625'B>5 2A'% :>)'564 '72>8'5>23 B4>5)'
23@5625';4A@'%28 A2>59)'76 16' 48 'U 2A45'2%% 15.'34>'5625'14A@)'
>%3@)'895 >4)'23@'@ 35 > 5 @' @ :45 43)'76 16'23456 >' 4>5
4%'%2325 11 ' > G > K'%4>)'%>5)'56 'A4: '4%'#4@' ' 4; >'> 2 43)'
23@'345';A3@'B2 43.'> : > 31)'23@'345'B> 8B5 43K' 143@A9)'
5' '?>25 5 @ .' 23@'H'7 'A4: ' >2='; 12 ' '%>5'A4: @' 00 I'
]%' *%(+

' Z+U' L :3' 3 '3' ='0*'3&'4%*3 %'63*' 3'3 3' 0'Q1 R' %'
7 'A4: '345'56 8)'764 'B>43'23@'7235)' 5><'23@'2%% 15; >'
3)'7 '123'62>@A9';' BB4 @'54';'12>> @'7 56'8 16'2%D
% 15 43'54' 8'7 56'7648'7 '123345'118:> ';5'25'2'@ 5231)'
764' 3 56 >'56'4;+ 15'4%'4 >' 3)'34>'7 56 3'56 '148B2 '
4%'4 >'162>59' /(+

F/' 0,'3&'.* 0, 0'3 ''6'%* '5 'Q1 R' ; >:'
56 '%>8';2 '43'76 16' '%4>' : >'%C @'56 '84>2A 59'4%'56 '#4 D
B A' 47'1A 2>'3' 5'B> 31 BA 'á 647'B47 >% A' 3' 5'845: ''
H' 'A4: '#4@';12 ' '%>5'A4: @')I'H'23@' 35' ' 43'54';''
56 'B>4B 5 25 43'%4>'4 >' 3 ' %'#4@' 4'A4: @')'7 '4 ?65'2A 4'
54'A4: '43 '23456 >I' '4>'6 '764'H'A4: 56' 8'5625';?25)'A4: 56'
6 8' 2A 4'5625' ';?455 3'4%' 8 I' 6 '6 2@'4%'56 '84 5' 3D
A 2>3 @'123345';5'148B> 6 3@'56 '8 23 3?'4%'56 '% 7'74>@'.'
23@'56 '6 2>5'4%'56 '84 5'A 2>3 @' 8 5'% A' 56 '%4>1 '4%')5A 8 '
16' '56 '?>4 3@'4%'5625'162>59)'76 16'B >%4>8 56' : >9'@ 59'
4%' 41 2A'A %)'23@'% A% 56'56 'A27 ' 4' 31 A125 '23@'B>4@ 1 3'
'56 '6 2: 3A9'@ B4 543)' '56 ' 3@'4%'56 '#4 B A)'23@'4%'2AA'
5'@415>3 ' 5' '@ @ 1 @' 3' 1> B5 >' : 3'%>48'564 '5625'
829' 8'54';'4%'56 '84 5' 89 5 >4 '23@' B 1 A25:' 325 > K'
56 ' 3 59'4%'56 ' : 3 ' > 43 .' 56 '@ : 3 59'23@'56 ' 25 %215 43'
4%' 6> 5K'@415>3)'76 16'12334556 > %4>';'@ 3 @'4>'@ ?>2@ @.'
7 564 5'> 84: 3?'4>'B>4B4 432;A9'A 3 3?'56 '84 5' 3@ 2> 3?'
23@'2%% 15 3?' 31 5 8 35 '54'5A ' 6> 5 23'A % ' 3@ @'56 '62BB9'
5 8B >'4%'2' 6> 5 23' '56 '325 >2A'23@'< 3@A9' %% 15'4%'56 '?> 25
:23? A12A'5> 56)'76 3'5> 2 > @' B' 3'56 '8 3@)'23@' 82@'56 '
;+ 15'4%'%> G 35'8 @ 525 43' 6 '@ 2'4%'2'> 1431 A @'#4@'.'
2' 2: 4 >'23@' 35 >1 4>'43'6 ?6.' 2'?>21 4 ' B > 5)'3%4>8 3?' '
4 >'?34>231)'B >%9 3?'4 5 6 2>5)'> A : 3?'4 >'3 1 5)'2AA D
: 25 3?'4 >'12>)'23@'148 %4>5 3?'4 >' 4>>47 '= 16' @ 2'2'56 '
32;A ' '54';>@A '56 '2BB 5 5 '4%'56 ';4@9)'23@'54'12A8'56 ' 84D
5 43 '4%'56 '8 3@.'54' ; 2>'7 56'B25 31 '23@' 16 >% A3 '56 '
12A2 8 5 '4%'A % K' 56 9' 7 5 3'56 '5 8B >)'23@' 62>2 43 U 'Z5A '
2%% 15 43)'> 4A: 3?'56 >'2AA' 354'43)'@ : > % @' 2114>@ 3?'54'56 '
@ %% > 35' 5 25 43'4%'5 'B>4B >'4;+ 15.' 4%'76 16'?> %'A2 8 35 '56 '
2; 31)'23@' 6'2BB> 6 3@'56 'A4 .' @ >'B > ' 5.' 64B '
62' 5' 3': 7.' 23? >'> '2?2 3 5'4; 5> 15 43)'23@'+49'5> 8B6 '
3' B4 43' 6 '> A?43'%C '56 '6 2>5'43' 5'5> 2 >)' 3'
%2 56'7 564 5'72: > 3?)'23@'> ?325 43'7 564 5'> >: K' 5'@2+ '
56 '2%% 15 43 ' B72>@'5472>@'6 2: 3)'2'56 ' 3'@4 '56 ' C62D
A25 43 '4%'56 ' 2>56)'54'> 5 >3' 3' %> 5% A' 647 >)'23@' ;A '56 '
74>A@' 7+' !*%0

2B', ' 5'*463'1435 3 '54' 6 7'5625'56 '5> '@ A@> 3'4%'
#4@'2> '<347 3';9'56 ' 4 3@3 '4%'56 >'%2 56)';9'56 >'4; @ 31 '
54' '148 823@8 35)'23@';9'162 59' '5 216 '5625'56 '5> 56)'
4%'5A '#4 B A' 72 '143%>8 @'%>48'6 2: 3';9'56 '5 5 8439'4%'56 '
'256 >)'5A ' 43)'23@'56 ' 4A9' #64 5.'23@' B43' 2>56';9'56 '
B>5)';9' 25 >)'23@';9';A44@' 6 31 '6 ' @31A5@)'5625'5A>5 '
@415>3 '4%'56 '#4 B A)'23@'56 'B>48 '4%' 5 >32A'A %)'76 16'2>'
82@' ' 3'* ' 6> 5)'4 ?65'54' ; ' > 1 : @)7 56'2'% AA'2 >D
231 '4%'%2 56' 6 ' B4 5A '56 3' 29)'5625'564 '764'62@' 16'
&3'7 > ' > '4%'4;52 3 3?'%>48'#4@'((56 9' 64 A@'2 <'2114>@D
3?'54' '7 AA)' : 3'56 '6 2A56'23@'A % '4%'56 >';> 56> 3.' 3A '
564)'%4>'764 8'56 9'B>29 @)'62@'148 8 55 @' 1 >52 3' 3'76 16'
#4@'564 ?65'%5'54'B 3 6'7 56'5 8B4>2A'@ 256 ' * '%3 6 '56 O'
B 5A)';9' C64>5 3?'56 '%2 56% A'54'< B'56 8 A: 'B >)'54'143D
5 3 ' 5 2@%2 5' 3'56 '%2 56)'23@'54'2:4 @' @4A25>9)'23@' : >9'56 3?'
5625'5 3@ @'54'@>27'56 8' 354'5' %' (,+
, >'F' /' 3& FH' '80*6' 3 '6'(*' ' 3 '.3&(,$% ' ; 'B4@) Q A'
/N V' F

%5 > 334 ' " ?' ; "2')/'+' '+')/*' ("5*' "#' "6!')/%)' B*' .**K' /'+' <"& &%16&*1)+' %16' /'+' <-& &%16&*1)+' %2*' 1")' 02'*5"4+ C' "2' B/%)+"*5*2' '+' -"21' "#' "6'' "5*2Y <"&*)/')'2*' B"2(6' %16')/'+' '+')/*' 5'<)"2 ')/%)' "5*2<"&*)/')/*' B"2(6!' ' 0' "42' #%')/ >' /"' '+' /*')/%)' "5*2<"&*)/')/*' B"2(6! -4)' /*')/%)' -*('*5*)/')/%)' 3*+4+' '+')/*' 1' "#' "6'[' ;

E' /'+' '+' /*')/%)' <%&*' - 'B%)*2' %!16' -(""6!' ' 0' 3*+4+' /2'+)' 1")' - 'B%)*2' "1(!' -4)' - 'B%)*2' %16' -(""6' 16' ')' '+)/*' K'2')')/%)' -*%2*)/'B')1*++!' -*<%4+*')/*' K'2')' '+')24)/ I' "2')/*2*' %2*')/2**')/%)' -*%2' 2*Y <"26' '1' /*%5*1!')/*' %)/*2!')/*' "26!' %16')/*' "(' /"+)' %16')/*+*')/2**' %2*' "1*

' %' 6 '62@' 2@' 3@'56 '%74' 82><' 2>' > 1B>412A' 328 A9' '7 '<347'5625'7 'A4: ' #4@)' ;9'4 >'A4: 3?'56 '16A@> 3'4%'#4@))04' H' ;9'56 '7 '<347'5625'7 'A4: ' '56 ' 16A@> 3'4%'#4@)' 76 3' 7 'A4: ' #4@' 23@' < B' '1488 23@8 35 I' %+' ((6 ' 35 35 43' 4%'56 ' B4 5A '72 ' 54' 6 7)' 647' 7 ' 829' <347' 76 3' 7 'A4:='56 '16A@> 3'4%'#4@' 3' 2' > ?65' 8233 >' 47'56 '72 ' 8 1 2>9'54' ; ' 6 73)' 31 ' 8 3' 8 29'A4: '56 '16A@> 3'4%'#4@') ; 12 '56 9'2> '56 >' > A25 43)'ZZ3 ; 12 '56 9' 8 ' 3?2? @' 3' 56 ' 28 'B > 5 ' 7 56'56 8 A:)'4>' ; 12 '5A 9'2> ' 8 5 2AA9' 76 5 @' ;9' 48 '1488 43' ;43@' 4%' %> 3@ 6 B' & 5' A4: ' B>41 @D 3?' %>4 8'56 '143 @ >25 43 ' '345'56 'A4: ' 4%'56 '16A@> 3'4%' 4@'76 16' '> 18 > ' &9'7625'8 2><'56 3'123' 7 '<347)'5625' 4 >'A4: '54'56 '16A@> 3'4%'#4@' '4%'56 '>?65' 4>5'^ 9'&9'56)I' 256'56 ' B4 5A)' H'7 ' 829'<347'5625'7 'A4: ' 56 ' 16A@> 3'4%' #4@I' 3'2' > ?65' 8233 >)' H 76 3' 'A4: ' #4@)' 23@I' %>48 5625' CD 1 AA 35' B> 31 BA 'H'< B' '1488 23@8 35)I' B 1 2AA9' '148 D 823@8 35' 54' A4: ' '16A@> 3)' ; 12 '56 9' ; 2>' ' 82? ' > ' 6> 523' A4: '56 > %4> ' '5625' 76 16' B>41 @ '%>48 'A4: '54' Z+4@)' %>48 '2' > ?2>@'54' ' 7 AA)' 23@' 76 16' A 2@ 56' '54' 4; 9' 2AA' ' '1488 823@8 35 ' %+' 5 .80&)8+ 0'T ' 0,'3& '.* 0, 0 ' % '0*')%& '*$+' 4'43 '764'5> A9 A4: ' 8 ' & 12 ' 6 ' 7 AA' ' 143%4>8 @' 54' 56 ' 7 AA' 4%'#4@)' 23@' 4'6 '43A9' @456' 7625'6 '74 A@' @4)' 23@' 4' 6 ' '56 3' @4 3?' 7625' 6 '1644 56' 23@@ A ?65 56' 3.' 23@' 5' 123345' ; '?> :4 '54' ; ' 8BA49 @' 2 ' 7 ' 74 A@)' 23@' 2 ' '@4' @ A ?65' 54' ; ' %+' 3& 4/+' A' 625' '1485323@ 56' '54' @4 ' 6 AB 56' '54' @4.' 23@' 56 31 ' 5' '5625' '1488 823@8 35 ' 2>)'345' ?> :4 ' -+' 0F' , % *!+ N' W*%' 63 * ' %& '4*%0' * ' *,'*' %.* 3' 3 ' 6 * %(, : >9' 5> '16A@' 4%'#4@' ? 5 ' 2;4: '56 '2%% 15 43 ' 23@'5 8B525 43 '4%'56 ' 74>A@)' 3'56 ' 5> 3?56'4%'5625'%2 @E)' 76 16' ? : '6 8'% AA'2 >231 ' 4%)' 23@ 5 '6 '6 2>5' B43)' 23456 *' 23@' ; 55 >' 74>A@' 6 '712>A@' '43 ' 4%' 564 ' 3 8)' 2?2 3 5' 76 16' : >9' 6> 523' 3?2? ' 4A 8 3A9' 23@' %4> 8 2AA9)' 25' 56 ' 3 5235' 4%' 52< 3?' 5625' B>4% 43' 7B43' 6 8 A%' 3' ;2B5 8 ' 3@' 4 >' 35 > 3?' 354'56 '14: 3235)' 56 '3 7' > A25 43 ' 7 ' 1435>215' 56 >)' 56 ' 3 7' A % ' 7 '56 3' ; ? 3' 23@' 3?2? ' 54' A 2@)' 23@' 56 '1488 3 125 43 '4%'#4@ ' 4A9' B > 5' > 1 : @' 3' 5625' 21>28 35)' 54' 5> 3?56 3' 23@' 32;A ' '54' B > D : > ' 3' 56 '%2 56% A' @ 162>? '4%' 564 ' 3?2? 8 35)' @4' 3' %% 15' 82< ' B' 4 >' 143@' 23@' B > 5 2A' ; >56 ' = 4' 5625' 56 ' B > 43 ' H' ;4>3' 4%'#4@I' 2> ' ;2B5 U @' 23@' %2 56% ' 6> 523 2' 23@' 56 ' B2 2? ' @4 '345' 43A9' 8 BA=' 56 '3 1 59' 16' A ' 3@ >'4%'% ?65D 3?' 23@' 143G > 3?)' ;9' 29 3?' 5625'H 7625 4 : >' ' ;4>3' 4%'#4@' 3: > 48 56' 56 ' 74>A@' ; 5' 5' 21G 2 35 ')' 7625' 7 2B43' 'B 5' 354' 56 ' 623@' %4>' 5625' B >B4)' ;9' 2@@ 3?)' H 3@' 56 ' ' 56 ' : 154>9' 5625' 4: >148 56' 56 ' 74>A@)' : 3' 4 >' %2 56 I' 0' & 0' 3*7& + > 8B5 43' 3' 4 >' 5> 3?56' '@ 5> 15 : '54' 4 >' : >5 .' 143%D @ 31 '4%'4 >'473' 8 > 5' ' 3+ > 4 '54' 4 >' 2< >K ; 5'2' @ B' 3 ' 4%' 6 823' 374>56 3 '23@' 4%' : 3 ' ?>21 ' 7 AA' 3 B > ' ' 7 56' 5625' A47A 3 '4%' 6 2>5' 76 16' #4@' 7 AA' 211 B5)' 23@' 5625' : ? A231 ' 4%' 143@ 15' 76 16' ' 7 AA' ; A K' H' 6)I' 56 > %4>)' H' ' 56 ', 1D 54>9' 5625' 4: >148 56' 56 ' 74>A@)' : 3' 4 >' %2 56 I' 4-+' .(. %+ M' T' 3 ' $' & ' 3 ' *0' ' *,' 45' 43A9' 56 ' 26)' ; 5' 2A 4)' 2 ' 16)' 56 ' 43A9 ; ?455 3' 4>' 5> ' 43' 4%' #4@.' B @' 6 > ;9' @ A9' G 2A % @' 54' ; 148 ' 56 ' 564>' 4%' 5 >32A' 2A:25 43' 54' 2AA' 5625' A4: 5' 23@' 4 ; 9' 8)' 23@' 2 ; 3@235A9' 54' > 72>@' 2AA' 56 >' %% > 3? ' 6 > '%4>' ' 2< ' %+' ((+ &9' H' 4 >'%2 56)\' 3' 56 i 56' : >)' ' 35 3@ @' 56 ' ; A %' 4%' 56 ' 6> 523'> A ? 43)' 2 ' 5' '@ A : > @' @473'54' ' 3' 56 ' #4 B A)' 23@ 8 82> A9' 14352 3 @' 25' 56 ' 056' : >)' 3' 56 ' 43 ' 2>5 1A)' 5625' H' * ' '56 ' 43' :*' #4@ I' > ;9' 2> ' 8 BA @' 2' % 33' 2 35 54' 56 '5> 56' 4%' '@415> 3)' 2' 5 2@%2 5 > A 231 ' B43' 56 ' 8 > 5' 4%' %% > 3?)' 23@' 23' 2 > @' CB 1525 43' 4%' ?A4> 4 ' B>4D 8 '.' @415> 3)' 76 16' 2' B > 43' : 3 '14 A@' 345' 62: '52 ?65)' 62@' 56 9' 345' ; 3' 5> 2' %% > 3?)' 76 16)' ; 12 ' 3@ >?43 ' ;9' 2' B > 43' : 3)' 123345' ; 5' ; ' 4%' 3% 3 5 ' 74>56' 23@' %% 1219.' B>48)' 76 16' 2' B > 43' : 3 '123' 23@' 7 AA' 82< ' ?44@' 54' 56 ' 55 >84 5' 3@' 56 > %4> ' 54' 8 3)' 764 ' 8 3@ ' 2> ' B4 @' 7 56'56 ' ; A %)' 56 ' @ %% 1 A59' 4%' 4: >148 3?' 56 ' 74>A@' ' 84> ' 5623' ;2A231 @' ;9' 5625' 2; 4A 5 ' 1 >52 359' 4%' 2' % 5 > ' > 72>@)' 23@' ;9' 56 ' C1 AA 31 '4%'5625' > 72>@' 0' 03*- + ' 3& '& '3 ' 3 '. '4/' 6 % 0,' 4(**,' Q ' 4>' 2> ' 56 ' %% 15 '23@' 3%A 31 '4%'56 '?> 25'5> 56' 84> ' C1 AA 35' 23@' 34;A)' 5623' '56 '?>4 3@' 23@' %4 3@25 43' 4%' 5' 5>43?' 23@' 1 >52 3 ' 6 ' 5 5 843 '? : 3' 8 '25' ';2B5 8)' 76 3' #4@' ;9' 2' :4 1 '%>48' 6 2: 3' @ 1A2> @' 8 '54' ; ' ';A4: @' 43)' 56 ' 2: 4 >'4%' 823D < 3@' 56 ' 8 >21A ' 25' '1> 1 % C 43)' 76 3' 25' 56 ' 6 @@ 3?' 4%' ' 3341 35';A44@' 7 ' 27';456' 725 >' 23@';A44@' 148 '4 5' 4%' ' @ .' 56 ' 3' 72 ' @2>< 3 @)' 5A ' 2>56' 5> 8 ;A @)' 23@' 56 ' :2 A' 4%' 56 '5 8BA '72 '> 35K' 56 ' ?3 '23@' 743@ > '@43 ' ;9' 8)' 23@' ;9' 456 > ' 3' ' 328 K' 56 '56>)' > B 15 : A9' @ 345 @' ;9' H' 56 ' 725 >)\' H' 56 ' ;A44@)I' 23@' H' 56 ' B > 5)I' 2> ' 2AA' 5 5 843 '4%' 56 ' 2 564> 59' 4%' ' > 43' 23@' 8 43)' 84 5' 3 C1 B5 432;A)' 2 ' ; 3?' :@ 31 ' 4%' 5625' 4A9' B > 5' 5625' 123345' @ 1 :' ' /(+ ' W %' 3 %' % ' 3% ' 3 ' 4 %' % .*%,'&0' 3 ' 0' Q1 R' 354' 56 ' 82 3' 5> 56' 1431 >3 3?' 6> 5' 56 ' $ @ 8 >' 4%' 56 ' 74>A@' 56 > ' 2> ' C' %% 1 35' 23@' 3@ 3 2;A ' 7 53 K' 76 > 4%'5A > ' 2> 3' 6 2: 3)' 23@' 56> ' B43' 2>56K' 564 ' 3' 6 2: 3' 2> '56 '5A > ' 21> @' > 43 ' 3' > 3 59)' 56 ' '256 >)' 43)' 23@' 4A9' #64 5.' 23@' 56 '56> '2>)' 3' 31)' 43 '23@' 56 ' 28 '#4@' -+' ! 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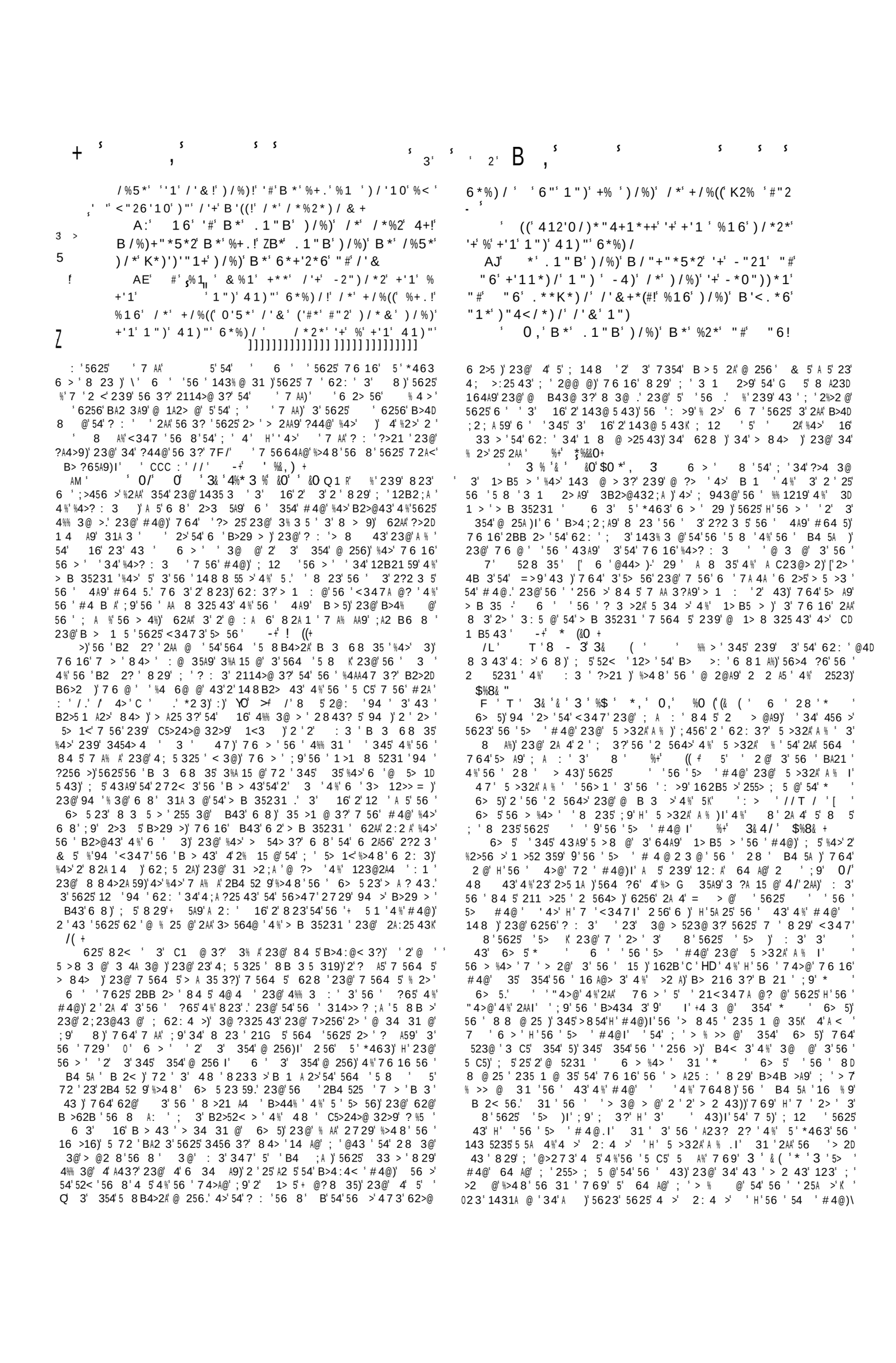

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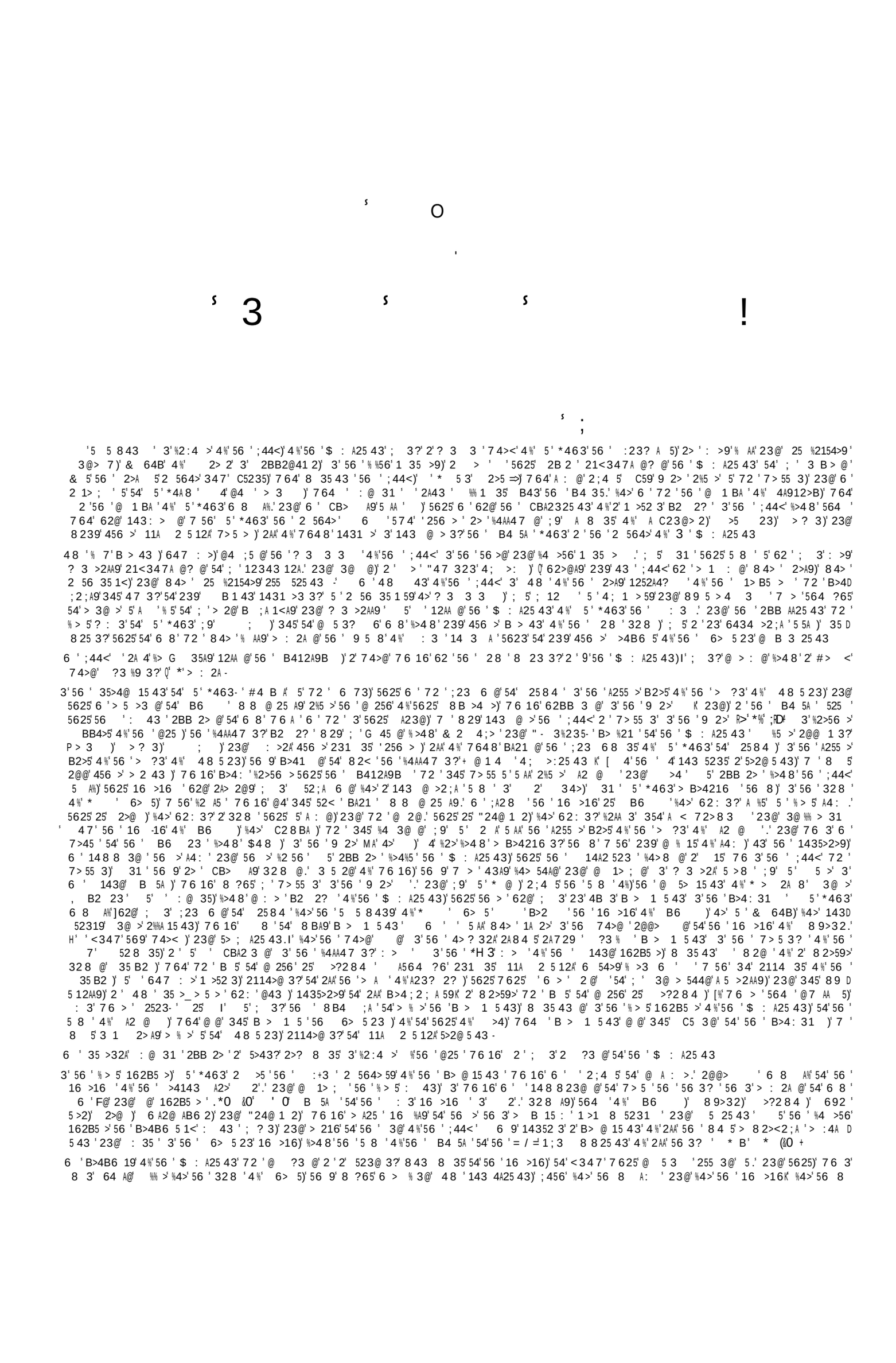

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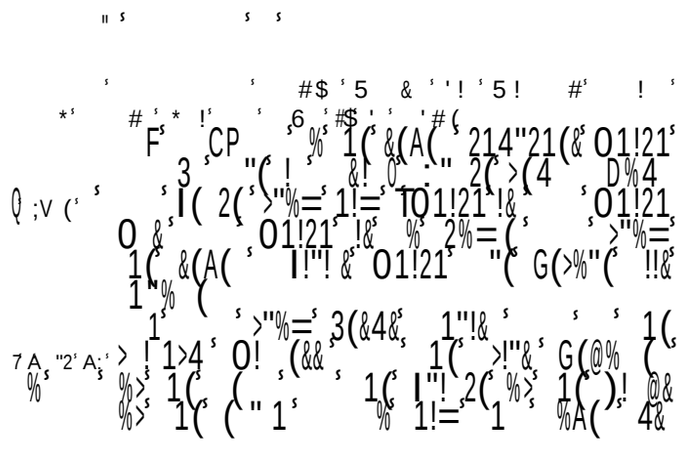

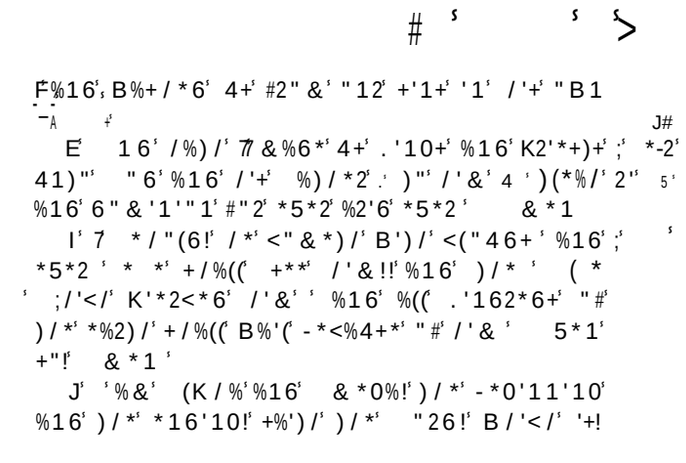

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* 7 6 16 >16) 5>5 %4>8 4%' 76 16 > 4AA47 @ 3 56 %>5
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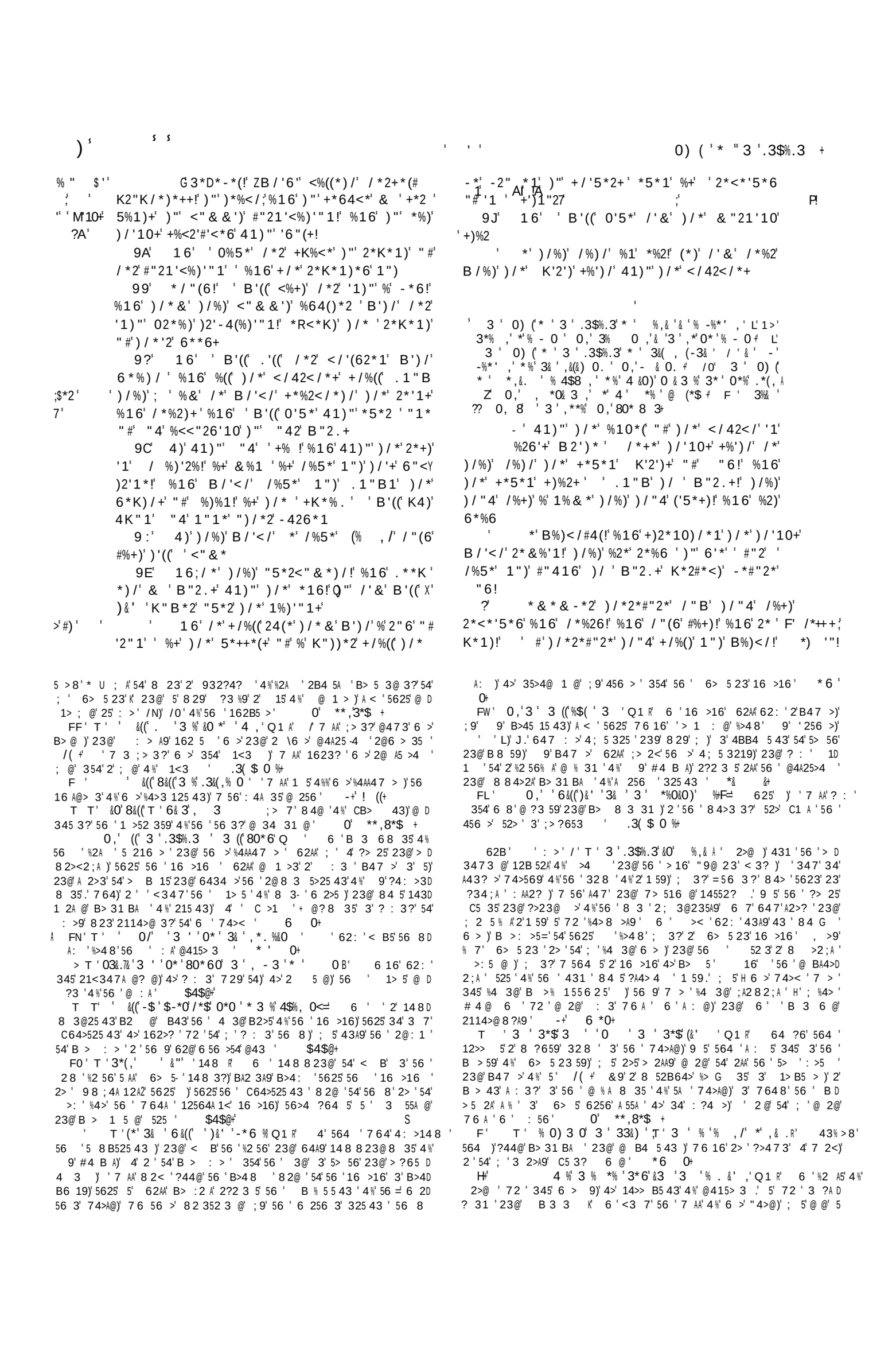

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%16' "2+/'KK*6' /'&')/%)' ('5*)/' #"2' *5*2' %16')/%)')/*'+/"4(6'.'((' "1*'%1")/*2' %16'
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+*%(!' ' /*%26')/*')/'26'-*%+)'+% ' " & *' %16'
+**' 16' '-*/*(6!' %16'("' %'-(%<.'/"2+*' '
%16' /*')/%)' +%)' "1' /'&' /%6'%'K%'2' "#'-%Y
(%1<*+' '1' /'+' /%16' ' T
/' 3 '*- 0&0)'* ' 3 ' ('&0'*%, %' 0,' 63 ' *((*6 ,' E' 16' ' /*%26')/*')/'26'-*%+)'+% ' " & *' %16'
P 3 % $-*0' .*0 &0&0)' '-%*-3./' *' 3 ' 0,' * ' 3 ' +**' 16' '-*/*(6!' %16'("' %'-(%<.'/"2+*' '
6*%(,+ %16' /*')/%)' +%)' "1' /'&' /%6'%'K%'2' "#'-%Y
-' '+%B' B/*1')/*' % & -' "K*1*6' "1*' (%1<*+' '1' /'+' /%16' ' T
"#')/*' +*%(+!' %16' ' /*%26!' %+' ')' B*2*' E' 16' ' /*%26'%'5"'<*' '1')/*' & '6+)'"#'
)/*' 1"'+*' "#)/416*2!' "1*' "#)/*'#"42'-*%+)+' +% '10!' " & *' %16'+**';' S)/*'#"42'-*%+)+' +% !AA ' & *%+42*' "#'B/*%)' Ô 0' M' & @ '
9' 16' '+%B!' %16'-*/"(6'%'B/')*'/"2+*' #"2'%' K*11 !' %16')/2**' & *%+42*+' "#'-%2(* ' !!!(1' '
%16' /*')/%)' +%)' "1' /'&' /%6'%'-"B' ' %16'% #"2'%' K*11 ' %16' ')/"4'/42)' 1")')/*' "'(' =(&4"(' 2% ! ' @'
%16' /*')/%)' +%)' "1' /'&' /%6'%'-"B' ' %16'% %(' % ' !A'
8<2"B1'B%+' 0'5*1'41)"' /'&' ' %16' /*'B*1)' I' 16'B/*1' /*' /%6' "K*1*6')/*'#"42)/' ^4 " 1(' 0% > ' '
#"2)/'<"1V4*2'10!' %16')"'<"1V4*2 +*%(!' ' /*%26')/*' 5"'<*' "#)/*'#"42)/'-*%+)' I " ' '
?' 16'B/*1'/*' /%6' "K*1*6')/*'+*<"16 +% !' " & *' %16'+** ^4 "
J' 16' '("".*6!' %16'-*/"(6'%'K%(*'/"2+*

62B', ' 5'*463'62@' 3)' 3'56'%4>8 >'B2>5'4%'6':43)' 3 3 59 %:'9 2>' 3'56'>?3'4%' >2+23'23@' @>23'B2>51 D
2'>B> 3525 43'4%'56'82+ 59)' ?A4>9)' B47 >)'23@' B> 8'2 D A2>A9)'56 >'7 >'64>> @'72>'23@' A2 ?65>)' B 1 2AA9'; 57 3'
564> 59'4%'#4@.' 23@'56' 2A @';44<)' 3'7=16'72'14352 3 @'56' 56 '>; AA 4 '* 7 '23@' $4823)' 3' ?9B5'23@' 9B> =' 23@'456 >'
4>@ >'4%' : 3 ' >4:@ 31'5472>@'56' 16 >16'23@'56' 74>A@)' B2>5'4%'56'74>A@)'2'2BB 7 '%>48'56'6 54>23'4%'564 '58 '
@ A:>@'54' 6> 5)'56' "28;'4%'#4@)'54'4B 3'23@'>:2A' 5)'%4>' 3'56'>?3'4%' @>23'72'56 >'?> 25'>; AA 43' 3@ >'56 >'%2A '=
56' 314 >2? 8 354%'56'16 >16'54'B25 31'23@'%2 56% A3)'M"(' 8 26)'&2>16412;)'23@'56 >'% 32A@ B > 43)')2%5 >'3 2>'M) '
? 56 >'7 56'56' 2@4>25 43'4%'56'16 >16'43'56' 4A 8 3'4112 43' 8 3'62@';' 3' A2 3';9'56' 74>@)'7 56'2'?> 25'A4 '23@' A2 ?65 >'
47'56 '>: A25 43'4%' 6> 5';?3'7 56'2'B>4B6 5 1<'>B> 3D 544' 4%'56' $4823 ' >'72)'23456 >' AA 5>4 '5> 8B6'4%'
525 43'4%'56'% 5 >' 525'4%'56' 16 >16'23@'74>A@)' 4'%2>'2'56' 6> 5'4:>' ' 3 8 .'23@'56' * 7 '23@' $4823)';456'56'
7 @48'23@' ?44@3 '4%'#4@'564 ?65%5'54' 82<' 5'<3473)'%4>' B > 1 54>'4%'56' 6> 523)'7 >'> 82><2;A9'82@'56'@> 2@% A'
56'143 4A25 43'4%' '%2 56% AB 4BA ' 6 '162B5 >'14352 3 56' C 1 543>'4%' : 3 ': 3? 231'43'43' 23456 >' 6'?> 25'
%>5'B >4@' 4%'B>4B6 1=' 23@'2'@ 1>B5 43'4%'56' 525'4%'56' 74>@'23@'56'>@'64> '2>' CB> :'8;A 8'4%'56' A2 ?65 >D
16 >16' 3@ >'56'6 256 3' $482' 8B>)'%>48'56'58'4%'56 .' 3?'23@';A44@9'B >4@' * +' 5 , ' -+' 6 *0
@25'4%'56'B>4B6 19' 216'4%'56'B>4B6 5 12A'@ 1>B5 43' ' 3' >+'TL' '4(.8'3*% '2'T'3 ,'' -&%'*'4 (0.'Q1R' 6 '56 >@
B2>5'48'%? >25:'4>'6 >4?A9B6 12A'B 15 >)'4>' 48'>B> 352D 2A'4>' B >4@' '162>215>U @';9'56' 5>15' C 1 543'4%'+ 51'
5 43' 3' 56' 59A'23@'%? >25:' CB> 43'4%'231 35'B>4B6 19)' 23@'+ @?8 35)'23@';9'56'B>41 >3?'4%' 54> '4%'14>3)'7 3)'23@'
@ 1>;3?' 48'B2>5 1 A2>'@ B 3 25 43'4%' >4:@ 5 1)'B>4B >'23@' 4A'5'1488 31 @'7 56' B5 8 ' :>)'23@'1435 3 @'@ >D
B 1 A 2>'54'5;' :>2A' 11 :'525'4%'56'16 >16'23@' 8B>)' 3?'56'>?3'4%'6 '%28 A9))'2;4 5'%4>59 574'9 2>' B5 8 '
@ >3?'56' B21'4%'5 8 'B4352 3 @ 3'56'B>4@' 6 0+ 72'23' 32154>'4%'+ 5'23@' G 2A'A27)'23@'72':>9' :>'23@'
,>'P#'T'4 3*(,'' 63&'3*% 2' 0,'3' 3 ' *'0'3& 'Q1R' 6 ' 8BA212;A'5472>@'4%% 3@>'= ' 11 4>)' A C23@>' :> i'
4B 3 3?'4%'56'%>5' 2A C6;5'2'765'64>)'23@'6'>@>)' 2A'4;4>'56' 28'162>215>)'4%';3?'2'84 5' :>'+ @?) 6 '
26'2>16>)'7 56'2'1>473.'76 16'2>' 8;A 8 25 12A'4%' 6> 5)' 574' 8B>4>' >'A<7 '34'A '1 A ;>25 @'%4>'56'B>41 >3?'
: 154>9)'5> 8B6)'23@'>492A59' ' 6'6 256 3' @4A'23@'56 >'74>D 4%'14>3)'23@'4A=23@'456 >'B>4: 43)'23@' BBA9 3?'56' $4823'
6 BB >'2>'>B> 35 @'2' ;@ @';9'56' 62%5'4%'56'#4 B A)' B 4BA'7 56'56 8)'2%5 >%6 9'62@' CB > 31 @'56'7235'4%'56 8'
23@';47 3?'3' ;8 43'56 >'3 1<'54'56' 8 ?659' 43G >4>' 6 '14A4 >'4%'H'56';A21<'64> I';%5'56' :>59'4%'56 >'325 >)'
H '7 35'%4>56' 143G >3?'23@'54'143G >.I' '62@'345'9 5' 23@'56';2A231'2>'2'7 AA'<3473' 8;A 8'4%'+ 51)'2'7 AA'2'
148BA 5 @' '143G 5)' 5'62@'A2 @'56'%4 3@25 43'4%' 5)'54';' 23'3@ 125 43'4%' 12>1 59' * +5 , '(-+ 6 *0+
?>2@ 2AA9';>4 ?65'54'2'% AA'148BA 5 43' * G5 , ' %+! (+ D +' ' $%'*' -63 '*%' - 00/' 6'8 2 >'6>'8 3D
* ' 6> 5'62@'>1 : @'2'<3?@48'%>48'56' '256 >))'76 16' 543 @)'12AA @'2'164 3 C)' '564 ?65';9'#>45 '23@' 48'456>'54'
72'54'>A'2AA'325 43.' 431 >3 3?'76 16'5'62@';3'%4> 54A@)' 62:';3'2'823-'@2=A9'2AA47231 4%%44@'.'H 2'B 339)I]4>'56'
5625)'3457 56 523@ 3?'2AA'4_0B4 543)'5' 64 A@';'B>:@'23@' $4823'@ 32>)'72'56'B>1'4%'@2 A9'72?)'2'2BB 2>'%>48'
B>:2A)'4'5625)'%32AA9)'2AA' 3 8 '%4'5' 64 A@';' ;@ @)'23@' 255'>1'F' 6 '>?A25 43'2;4 5'56'3 1 2> '4%'A%' 8D
56'<3?@48'4%'56'74>A@' 64 A@';148'56'<3?@48'4%'#4@)' BA9'48'7235'23@' 12>1 59'4%'56 8' 3'+35 35'4%'56'B>4B6 19'
23@'4%' '6>5' 6' CB> 43'6>' @'>1 :'%>56 >')'5625'14>3' 64 A@';'B>4:@ @'%4>'56'B 4BA)';5'5625'5' 64 A@'
A?65'%>48'56' 59A'4%'56' 2A8 5)'25' 'CA:')'>B> 35 3?' ;'@ 5>;5 ;2A9)'4A)'23@'
6>5'3'56'162>215>'4%'2' 43G >4>' 6 0+ 6'2>51A'4%)%44@'A>'8 35 43 @)'76 25)';2>A 9)'4A)'23@'
0,''.%*60'6 ')&'0'$0*'3& '>R' 6 '56'1>473'4 73)'@ 1>;@'25'162B' '/' >'"4>@-'<3?@48'72'345'4%'
A%)'@ 1>;@'25'162B' '/' >'"4>@-'<3?@48'72'345'4%' 56'74>A@' 6'1>473'56'>72>@'4%'56'%2 56% A'82>59>'764'
56'74>A@' 6'1>473'56'>72>@'4%'56'%2 56% A'82>59>'764' %4 ?65'23@'143G >@'3'56'12 '4%' 6> 5.'H'&'564'%2 5A% A'
%4 ?65'23@'143G >@'3'56'12 '4%' 6> 5.'H'&'564'%2 5A% A' 354'@ 256)'23@' '7 AA'?:'56 '2'1>473'4%'A%)I'162B' '/'
354'@ 256)'23@' '7 AA'?:'56 '2'1>473'4%'A%)I'162B' '/' 0' **,3*$ +
0' **,3*$ + N' T'0*3%'3*% '3 '6 '%,GQ ' 6 '143@' 2A4>'B D
N' T'0*3%'3*% '3 '6 '%,GQ ' 6 '143@' 2A4>'B D >4@' '345@'%4>'72>'23@' A2 ?65>' 5'1488 31@'7 56'56'$4D
>4@' '345@'%4>'72>'23@' A2 ?65>' 5'1488 31@'7 56'56'$4D 823' 8B>4>'>2+23)'23@'1435 3 @'@ >3?'6 '>?3)'23@'5625'
823' 8B>4>'>2+23)'23@'1435 3 @'@ >3?'6 '>?3)'23@'5625' 4%'6' 11 4>)'5AA' 3' 8B>4>'48 84@)'2' B21'4%'2;4 5
4%'6' 11 4>)'5AA' 3' 8B>4>'48 84@)'2' B21'4%'2;4 5 /0 'F

3 '*- 0&0)' 3 ' ('&0'*%, % M ; 3 ; C . I 2 J ,'A63 *(8 ,' 3 % $-*0+

* $ ' 1%&*') /%)' S%)' "1' /'&' B%+' *%) /$
L' %16' *((' #"((" B*6' B') /' /'& ' 16' K"B*2'
' >)' B%+' 0'5*1' A41)"') /*&' "5*2') /*' #"42) /'K%2)
* 00' *%2) /!') "' .'((' B') /' +B"26!' %16' B') /
/410*2!' %16' B') /' 6*%) /!' %16' B') /') /*'
-*%+)+' "#') /*' *%2) /
L' 16' B /*1' /*' /%6' "K*1*6') /*' #'#) /'
+*%(!' ' +%B' 416*2') /*' %()%2') /*' +"4(+' "#'
) /*&') /%)' B*2*' +(%'1' #"2') /*' B "26' "#'
"6!' %16' #"2') /*')*+)'&"1 ' B /'</') /* '
/*(6
A ' 16') /* ' <2'*6' B') /' %' ("46' 5"'<*!'
+% '10!' "B'("10!' ' "26!' /"(' %16') 24*!'
6"+)') /"4' 1")' $460*' %16' %5*10*' "42' -("" 6'
"1') /*&') /%)' 6B*((' "1') /*' *%2) /' [=
AA' 16' B /')*' 2"-*+' B*2*' 0'5*1' 41)" '
*5*2 ' "1*' "#') /*& ' %16' ')' B%+' +%'6' 41)"'
) /*&!') /%)') /* ' +/"4(6'2*+)' *)' #"2' %' ('))(*'
+*%+"1!' 41)'(') /*'2' #*((" B+*25%1)+' %(+"' %16'
) /*'2'-2*) /2*1!') /%)' +/"4(6'-*' .'((*6'%+') /* '
6 % ' +/"4(6'-*'#4(#'((*6
J' 16'2'-*/*(6' /*1' /*' /%6' "K*1*6

)/*' +'R) /' +*%(!' %16!' ("!') /*2*' B%+' %' 02*%)'
%2) /V4%.' ' %16') /*' +41'-*<%&*' -(%<.' %+'
+%<.<(") /' "#' /%'2!' %16') /*' & "" 1' -*<%&*' %+'
-("" 6
A?' 16') /*' +)%2+' "#' /*%5*1' #*((' 41)"') /*'
*%2) /!' *5*1' %+' %' #'0')2**' <%+)*) /' /*2' ?' 41' %"2!'
)'&*('#'0+!' B /*1' +/*' '+' +/%.*1' "#'%' &'0/) '
B'16
AC7 7 16') /*' /*%5*1' 6*K%2)*6' %+' %' +<2"B(' = 4' P'
B /*1')' '+' 2"((*6')"0*) /*2' %16'*5*2 '&"41Y
)%'1' %16' '+(%16' B*2*' &"5*6' "4)' "#') /*'2'
K(%<*+
A:' 16') /*' .'10+' "#') /*' *%2) /!' %16') /*'
02*%)' &*1!' %16') /*2'</' &*1!' %16') /*' </'*#'
<%K)%'1+!' %16') /*' &'0/) ' &*1!' %16' *5*2 '
-"16&%1!' %16' *5*2 ' #2**' &%1!' /'6') /*&Y
+*(5*+' '1!) /*' 6*1+' %16' '1') /*'2"<.+' "#') /*'
&"41)%'1+
' = 16' +%'6')"') /*' &"41)%'1+' %16;; 4.*+$'
2"<.+' %((" 1'4+!' %16' /'6*' 4+'#2"&') /*' #%<*
"#' /'&') /%)' +'))*) /' "1') /*') /2"1*!' %16'#2"&'
) /*' B2%) /' "#') /*' %&-'

7 56' 56 ' 8B >4 >' 2C 8 3)' 23@' 1435 3 ' 54' 56 ' 5 8 ' 4%' 4 '
1A 23)' 2;4 5' % %59' 9 2> ' 6 ' 6 54>9' 4%' 2C 8 3' 23@' 6 ' D
: >2A' 11 4> ' ' % AA' 4%' 72> ' 23@H 3 >@ >)' 3:2 43 '4%'%4> ?3'
2>8)' > ; AA 43 '4%' ;+ 15')' 23@' @ 256 ' 4%' B> 31 ' > ' 2 '
%% 1 35' 8BA498 35' %4>' H'56 ' 7 4 > @ 2 3 @' 16' 72> ' 23@' @ D
:2 525 43 ' 8 5' 3 1 2> A9' B>4@ 1 '2'%2 8 3 .' 23@' B '56 '%2 8 3 \'
' 23456 >' @ 5 3? 6 3?' 12A2 8 59' 4%'56 ' B > 4@' 3' 2A' 143D
G 31 '4%' %2 8 3 ' '9'56 ' B 5 A 31)I' 7 6 16' '56 '56 >@' @ 5 3D
? 6 3?' 12A2 8 59' 4%'56 ' B > 4@' 6 ' B 5 A 31)' 5' ' > 14>@ @'
; 9' 23' 6 54> 23' 4%' 56 ' 5 8)' 2> 3?' %>4 8 ' 56 4B 2)' 7 6 A ' #2AA '
23@' , 4A 23' 7 > ' 8B >4 >)' B >:2@ @' 2AA' 56 ' $4 8 23' B>4: 31)'
23@)' %4>' % %5 3' 9 2>)' 31> @ ; A9' C62 5 @' 56 8 ' 3456 >' 6 D
54> 23' 29)' B 2< 3?' 4%' 56 ' @ :2 525 43 ' 4%'56 ' 1956 23)' 3' 56 '
> ?3' 4%' #2AA ' 2;4: ' 8 35 43 @)' 5625' 56 ' B 5 A 31)' 345' A ' B >D
3 1 4 '5623' 56 ' 72>)' @ 5>49 @' 7625 : >' 72 ' A %5' 4%' 6 823' < 3@)'
23@' 82@ ' 16' 62:41<' 2 ' 62@' 3 : >)' ; 3' @43 ' 3' %4>8 >' 5 8 '
6 3' 14 35> ' 2> ' @ B4B A25 @' ; 9' 56 ' 12)' 9' 56 ' 7 A@ '
; 2 5 I' 8 A5 BA9' 23@' 148 ' 354' 5473 ' 54' @ 5>49' 8 3.' 7 6 16' '
56 ' %4 >56' @ 5 3? 6 3?' 12A2 8 59' 4%' 56 ' B > 4@' 6 ' 7 4 A@'
2BB 2>' 2' B>4 ; 2 ; A ' 143 G 31 '4%'56 ' %4> 8 >' 12A2 8 5)' %' 6 54>9'
62@' > 14>@ @' 3456 3?' 4%' 5.' ; 5' 5' 62BB 3 ' 5625' 43 ' B 1 2A' 3=
5231 ' ' > 14>@ @' 4%' 0 ' 74A: ' 35 > 3?' 2' 1 59' 7 6 16' 72 ' @ D
>5 @' ; 9' 5 ' 362; 5235 ' 6 ' 14A4 >' 4%' 56 ' B2A ' 64> ' ': >9'
52; A ' 54' 56 ' 8 4>52A 59' 4%'56 ' B > 4@' * + 5 , ' -+' 6 *0+
' *' % 3 ' *$% 3' - % ' * ' 3 ' % 3 23 3?' 4: >' 56
?> 25 >' B2>5' 4%' 56 ' $4 8 23' 8B >)' 7 6 16' 72 ' 56 4 =5' ; 9' &
*' ; ' 2 ; 4 5' 2' %4 >56' B2>5 4%' 56 ' 7 4>A@' 56 3' <3473 ' * + 5 , +
)+' L' ' 6' $0, % 3 ' (% 3 ' 0, 'Q1 R' 6 '% %56' 2;'4>' B D
> 4@' ' > 8 2><2; A ' %4>' 2' @> 2@% A' B > 1 5 43' 4%' 56 ' 6> 5 23)'
764' 2> ' > B> 35 @' A9 3?' B' 3@ >' 56 ' 2A52>)I' % 2 ' 56 ' 1 3 ' '
5 AA' 3' 56 ' 52; >321A ' 4%'56 '5 8 BA)E' 2 ' 21> % 1 ' 3 7 A9' A2 3' 23@'
4%% > @' 54' # 4@' 6 9 >9' 2A4 @' : >' / E'%4>' 56 ' "4>@' 54' H' + @? '
23@' 2: 3? I' 56 >' 12 .' 5625')' 56 ' 1> A5 ' C >1 @' B43'
56 8' 7 > ' 4%' 4' ;2>;2>45 ' 23@' 25>41 4 ' 2' 325 >)' 2 ' 54' @ >: ' '
23@' B>4: 4< ' 56 ' : 3? 231 ' 4%' 56 ' "4>@' 6 ' B > 1 5 43' 2AD
A @ @' 54' ' 56 ' A2 5? 3 >2A' B > 1 5 43' 7 6 16' 72 ' ; ? 3' ; 9' 4 '
1A 23)' 23@' 1435 3 @' ; 9' 456 >)' 23@' A2 5 @' A43? >' 23@' C5 3@ @'
A2>56 >)' 23@' 72 ' 62>B >' 23@' 8 4> ' ; A44@9' 5623' 239' 7 6 16' B> D
1 @ @' -+' 6 *0+
*' B > 1 5 43' 4%' 56 ' 6> 5 23 ' 722 4' ?> 25' 2 ' 5625' 7 6 16' 62@'
5 ' 328 ' %>4 8 ' 56 ' 8B >4 >' 41A 5 23)' ' ' FLN ' 5' ; ?23'
7 56' 56 ' A2 ?65 >' 4%' /W) ' 7 56 3' 56 >59' @29 .' 23@' 3' ?9B5'
2A43)' 2' : >9' 82AA' B2>5' 4%' 56 ' $4 8 23' 8B >)' /NN) ' 7 > ' B 5'
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' 0,' 3 /' .%& ,' 6& 3' '(*$,' '*&. ' T ' ! *%0' (*0) ' X.+ ' A ' '
2' 5>43?' 8 4@' '4%' CB> 3?' 56 ' C5> 8 ' 1> A59' 4%' 56 ' B > 1 D
54>)' 7 6 16' 72 ' 347' > B '%4>'+ @? 8 35)' 23@' A4 @A9' 12AA @' %4>' 56 '
: 3? 231 '4%' 2: 3' * + 5 , +
//' 0,' 63& '%*4 ' 6 %')&' 0' Q1 R' 625')' 56 9' 7 > ' 2@D
8 55 @' 354' 5 A ' >23< ' 4%' 56 ' ;A @' 6 ' 8 52B64>' ' 52< 3'
%>4 8' 56 '1 54 8' 4%' 56 ' * 7 ' 3' 2@ 8 55 3?' 56 ' B> 5 ' 54' 56 >' 4%D
%1 ' 64 ' 764)' %>4 8' 56 >' ? 3 2A4?9' 23@' %> @4 8' %>4 8' B >D
432A' @ % 15)' 7 > ' + @? @' % 5' %4>' 56 ' 4%% 1)' 7 > ' 1A456 @' 7 56'
7 6 5 ' >4;)' 23@' > 1 : @' 354' 56 '14 >5' 4%'56 ' B> 5)' 7 6 16' 72 '
56 ' %4> 8' 4%' 56 >' 2@ 8 43 ' * + 5 , +
TT ' 0,' & ' 6 '+ &,' $0 *' 3 ' 3 /' 3*$(,' % ' Q1 R' 625'
56 9' 64 A@' 7 2 5' 2' A 55A ' 18? >' 5 AA' 56 ' ?A4> 4 ' 3 8 ; >' 4%' 82> '
59> ' 64 A@' ; ' % A% AA @' 25' 56 ' 1431A 43' 4%' 5A ' B > 1 5 43)' 23@'
5625' 56 3' : 3 '+ @? 8 35 ' 64 A@' %2 ' B43' 56 >' 2@: > 2> '
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/F' T ' 3 ,' *- 0 ,' 3 ' &M 3' (C 6 ' C56' 2A' 4>' B > 4@'
B>4@ 1 ' 8 ?659' 1623? ' 23@' > :4A 5 43)' 7 6 16)' 2114>@ 3?' 54' 56 '
B>4B; 5 1<' 59A)' 2> ' CB> @' ; 9' ?> 25' 148 8 45 43 ' 3' 56 ' 2>56 '
23@' 3' 56 ' 6 2: 3 ' 6 ' : >9' 28 ' 82? ' 23@' CB> 43 ' 2>
' 8 BA49 @' ; 9' 456 >' >4B6 5 ' 7 56' > A25 43' 54' 1623? ' 4%' > A ? 43'
23@' ?4: >3 8 35.' 23@' 2> ' 56 > %4>' 7 56' ?> 25' % 53 ' 23@' B>4D
B> 59' 2BBA @' 54' 43 ' 4%' 56 ' ?> 25 5' 23@' 84 5' 8 84>2; A ' > :4A D
5 43)' 7 6 16' : >' 7 > ' 3' 56 ' 74>A@)' 56 ' ; : > 43' 4%' 56 ' 6 2D
56 3' > A ? 43)' 23@' 52; A 68 35' 4%' 56 ' 6> 5 23)' 7 6 16' 72 ' ; D
? 3' ; 9' 43 5235 3 ' 56 ' #> 25)' 23@' 72 ' 148 BA 5 @' ; 9' 6 ' 11 D
4> ' -+' 6 *0+
T T' ')% ' % 3K$ 8 2C ' 8 A2>' B6>2 ' ' @' ; 9' 56 '
B>4B6 5' 2??2)' 162B' ' M)' F/' 3@' 76 > ' 72 ' : >' 2' ?> 25 >'
1431 43)' 5623' 76 3' 6> 5 23 59' 72 ' 2@:231 @' 54' 56 ' 5A >43 '4%'
2?23 8)' 23@' @4A25>9' ?2: ' BA21 ' 54' 56 ' 5> ' > A ? 43' ^' -+'
6 *0+
/N' T ' *$0 &0' T '& (0,C 6 ' 2> ' BA21 ' 4%' 56 ' ?> 25 5
3> 59' 3' 5 8 ' 4%' @23? >' 23@' 64 5 A ' 3:2 43)' 23@' 2> ' 56 > %4> '
> B> 35 @' 2 ' 2%%4>@ 3?' 34' 2% 59' @ > 3?' 56 ' @> 2@% A' : 525 43 '
0' **,3*$ +
/0' 0,' 3 '8&0) ' ' 3 ' % 3' Q1 R' > '%4AA4 7 ' 23' 3 8 >25 43'
4%' B2>5 1 A2>)' 6 7 3?' 5A 8 5' %>4 8' 56 ' 6 ?6 5' 54' 56 ' A4 7 5)' @ '
B4 7 > ' 23@' ;+ 15 ' 4%' 2?23' @4A25>9' 4 7 3' 56 8 A: ' 4: >14 8 '
; 9' 56 ' 6> 5 23' > A ? 43 K' 56 ' 6 > ' ' CB> @' 56 ' ?> 253 '4%'
5 > ': 154> ' 7 6 B6' 7 > ' 4; 52 3 @' @ > 3?' 56 ' @ 5> 15 43' 4%' 56 '
@4A25>4 ' 74> 6 B)' 23@' 56 ' 8 >2; A ' %2AA ' 4%' 2 ' 764' 3@ 2:4 > @'
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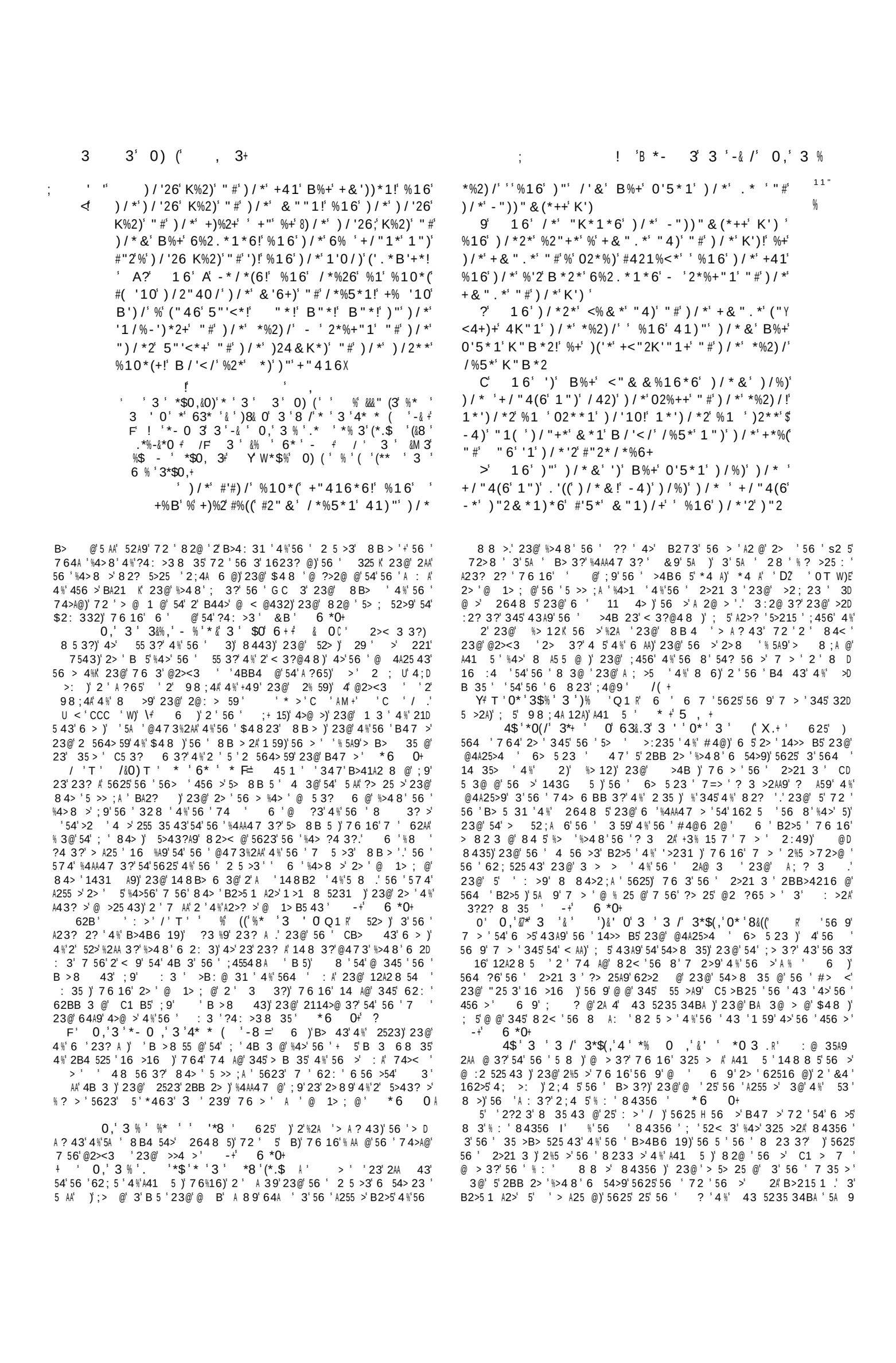
56 ' 2>8 ' 7 6 16' +4 3 @' 56 8 ' `4@



.* ' *% 3'(*.$ '(&8 ' .*%-&*0 V ! ' , 3 ' &M 3' 0) (' *$0, 3+

&*1)' 6 ' ')/*')"2&*1)' "#' %' +<"2K'"1!
%%' B/*1' /*' +)2'.*)/' %' &%1
E' 16' '1')/"+*' 6% +' +/%((' &*1' +**.'
6*%)/!' %16' +/%((' 1")' #'16' ') !' %16' +/%((' 6*Y
+'2*')"' 6'*!' %16' 6*%)/' +/%((' #(**'#2"&')/*&!;
I' 16')/*' +/%K*+' "#')/*' ("<4+)+' 6 %
('.*'41)"' /"2+*+' K2*K%2*6' 41)"' -%))(*' %16'
"1')/*'2' /*%6+' 6 %'%+' ')' B*2*'<2"B1+'('.*'
0"(6!'%16')/*'2' #%<*+' 6 %'%+')/*' #%<*+' "#'
&*1' ;
J' 16')/*' /%6' /%'2' %+')/*' /%'2' "#' B"Y
&*1!'%16')/*'2')**)/'B*2*'%+' 3' 3' "#'("'1+
L' 16')/*' /%6' -2*%+)K(%)*+!' %+' ')' B*2*'
-2*%+)K(%)*+' "#'2"1' %16')/*'+"416'");)/*'2'
B'10+' 6 '%+')/*'+"416'"#'</%2'")+' "#' &%1 '
3'% '2411'10')"' -%))(*
A' 16')/*' /%6')%'(+' ('.*'41)"' +<"2

K'"1+!' %16')/*2*' k *#*' +)'10+' '1')/*'2')%'(+' '
%16')/*'2' K"B*2' 6 ')"' /42)' &*1' #'5*' 0*'
&"1)/+' ; ' ;
AA' 16')/* !' /%6' %' /'10' "5*2')/*&!'
63&.3' & ')/*' %10*(' "#')/*' -"))"&(*++' K')!'
B/"+*' 1%&*' '1')/*' *-2*B')"104*' &' '
-%66"1!'-4)' '1')/*' 2**.')"104*' /%)/'3&'
1%&*' ' K"(("1' \'1&)'!
' A9' 1*'B"*' '+' K%+)' 0,'-*/"(6!)/*2*
<"&*')B"'B"*+' &"2*' /*2*%#)*2
A?' 16')/*' +'R)/' %10*(' +"416*6!' %16'
' /*%26' %'5"'<*' #2"&')/*' #"42' /"21+' "#')/*7'
0"(6*1' %()%2' B/'</'' +' -*#"2*' "6!
! AC# % '10')"')/*' +'R)/' %10*(' B/'</'
/%6')/*')24&K*)!' ""+*')/*' #"42' %10*(+'
B/'</' %2*' -"416' '1')/*' 02*%)' 2'5*2' 4Y
K/2%)*+

2A729'>5> 25 @'25'56 '2BB>4216'4%'7 35 >)'23@'>3 7 @'56 >'25)'
521<' @ >3?'56 ' 8 8 >' 84356)'%4>' : 3' 11 :'9 2> '
& 5' %)'2' 8 '84>' B>4;2;A)'23@'2' 2114>@'7 56'56 'B>4B6 '
5 1<' 59A)'56 '84356 '@ ?325' 216'2' B21'4%'56 >59'B>4B6 '
5 1<' @29'4>'9 2>)'56 3'56 '764A'B >4@'@ 345 @' '43'6 3@> @'
23@'%%59'9 2> ' 3@'2114>@ 3?A9'7 ' 62AA'%3@)'5625)'564 ?6'56 '
8B>'4%'56 ' 2>21 3'62@'2'A43? >'@ >25 43)'9 5'7 56 3'5625'B D
>4@'56 9'82@'56 >'B> 31 B2A'143G 5)'23@'56 >'B47 >'4%'H'54>D
8 35 3?'8 3\'72'16 %A9' C >5 @' 5'2BB 2>'%>48'56 >'6 54>9)'
5625'56 >'?> 25 5'143G 5'7 >'82@'%>48'56 '9 2>')'76 3)'
2648 5'%>5'; ?23'54'B>4B2?25'6 ' 8B4 5 >)'54'56 '9 2>'<DJ'
76 3'56 '12A B6' A823 4>'; A5'&2?@2@)'54'% C'56 >'56 ' 25'4%'6 '
8B>' 9>2)' >2)' 3@2)'23@'56 '?> 25 5'B2>5'4%' 2)' ?9B5)'P
23@'56 '?> 25 5'B2>5'4%' %>12)' B2 3)'23@' 48 'B2>5'4%' >4B)'
7>' ;@ @'7 56 3'56 'B >4@K'; 5'76 3'56 '12A B6'%C @'56 >'
62; 525 43' 25' &2?@2@)'56 3'56 >'2>8 '1 2 @'%>48'>2:2? 3?'A<'
A41 5)'23@'56 9'2 8 @'84>'56 '162>215 >'4%' 2' 55A @'325 43'
-+' 6 *0+' P
'3' *% 0'*' ' .*%-&*0 ' 6 ' 5 3?'4%' 2' 14>B 43)
'76 3'6 '5> < 56' 2' 823)I' ' : >)'255 3@ @'7 56' 3%A2 8 825 43'
23@' : 4A 35'B2<' 6 0+
D+' T' 3 ((0' 8', 3 625')' 4'?> 25' 62AA' ;'56 '12A2D
8 5 '4%'564 '5 8)'5625' 62AA';'5 > @'4%'A %' * +' 5 , +
W'A 0,' 3' 3 -'*' 3 K '6 %'(&8 '$0 *' 3*% AV 3'56 '
%4AA47 3?': >)'56 '325 >'=3@'G 2A 5 '4%'A41 5'2>'@ 1> ; @)'
B2>5A9' 3'2AA 43'54'56 'B>4B >5 '4%'325 >2A' A41 5)'23@'56 '@ D
1> B5 43' ? : 3'4%'56 8' ;9'56 ' >4B6 5' *4 A)' '*4 A' 3' /)' Q1'
23@' 56 ' 345 ' 56 >)E' 23@' B2>5A9' 3' 2AA 43' 54' 5% ' 62; 5 ' 23@'
8233 >'4%'56 ' >2; 23 ' 239'2 564>'62:'4; >: @)'5625'56 '
6 2@4%' 2' A41 5'> 8 ;A ' 5625'4%' 2'64> .' 76 31 '56 ' 52A 23 '
12AA' 56 8'. ' ('4>' A 55A '64> ' 3@'56 ' >2; 23 '62: ' 3'
2AA' 2? ' ; 3'%284 '%4>'56 >'64> '23@'64> 823 6 B.' 5' ; 3?'
'7 AA' <3473'5625'56 >' 5> 3?56'143 5'16 %A9' 3'56h>'12:2A>9'
-+' 6 *0+'
*0' 3 &%'3 , '6 % ' '& ' 6 % '.%*60'(&8 ')*(, ' AA @ 3?
54'56 '6 2@@> '4%'56 ' >2; 23)'764'143 5235A9' :%4>'5 >;23'4>'
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56 ' 11 '23@' C5 35'4%'56 >'@48 3 43.'%4>'56 >'3 : >'72 '2 '
325 43' 76 16' C5 3@ @' 5'B47 >' 4'7 @ A9)'4>' 3' 4' 64>5'2' B21 '
4%'5 8 '>@ 1 @' ; 3 256'%5 '94<' 4' 8239'14 35> '23@' <3?D
@48 ' * +' 5 , +
<+' L' L' . ' % ' 3' . '* ' 0+' 0, L 3 &% Q1 *' 6 '
>2; 23 '74>'56 >' ; 2>@)'4>'25'A 2 5'56 >'8 5216 4)'A < '8 3)'
76 A'56 '62>'4%'56 >'6 2@'72 '%447 3?'23@'BA2 5 @'A < '5625'4%'
748 3' &B' &'&*0+
L' T' ' 3' 3' '(&*0 &' 625') 5>43?'54'@ :4 >)'*4 A' 'D+'
* +' 5 , +
I+' 4% -(' 'T' '* '%% &` ' "41 5'62:'2'62>@' 6 AA'4>'
<3)'76 16'62'4%5 3' ; 3'12AA @'56 >'2>84 >' 6 '%? >' '@ D
?3 @'54' CB> '56 '@ % 3 :)'2'56 '%4>8 >'72 '56 '4%% 3 :)'
2>8 '4%'56 ' 2>21 C ' -+' 6 *0+
,4" '

' 0,' 3 ' *$0,'* ' 3 &%' 6&0)' Q1 R' > ;9' ?3 %9 3?'56
>2B @ 59'4%'56 >'143G 5 ' /(+' 25 >2A'A41 5 '%A9'7 56' 4'
?> 25'2' 34 '4%'56 >'7 3?)'5A85'56 9'829';'52< 3'%4>';>@ '
-+' 6 *0+)
/ ' 0,' 3 /' 3 ,' &(' (&8 '$0 *' .*%-&*0 AN 6 9'2>'56>1'
148B2>@'54'H' 14>B43)I':>')'0)' U2' 23@'62@'H' 53?' 3'56 >'
52A)'Q1 I'5625')'76 > :>'56 9'12>> @'56 >'2>8)'56 >'56 9'
@ 5AA @'56':348'4%'2'%2A '>A?43' -+' 6 *0+
//']&,' 3 /' 3 ,' '8&0)' *$ %' 3 = A564 ?6'56 '325 >2A'A4 '
) 1 5'62:'34'<3?)' '56 '4; >:25 43'4%' ? >)' >4:'CCC'FW)E
9 5'[56 '%? >25:'A41 5'62:'43)'76 16' '56 '23? A'4%'56 '
C5548A 'B 5)'5625' :A' B>5)'56 'B> 31 '4%'56 'B47 >'4%'@2><D
3)'764)'%>48'56 '143 5235' :A'6 ' @ ?3 3?'23@'@4 3?' 3'
56 '74>A@)' '12AA @'\'56 '@ 5>49>s1' 0+
' 4 , , *0 -*((/*0+' #2 1('%(' =(!' (G'(0
56 '456 >'3'#> <)'8 23' 56 '@ 5>49 >\' >' @' 82?3 '
5625'6 >' ' 48 '2AA 43'54'56 '328 '4%' ;4@2)'56 '148843'
5 5A '4%'56 '<3?'4%'5625'B2>5'4%' >2; 2)'%>48'76 16' 2648 5'
128)'2' 62>246'72 '56 '148843'328 '4%'56 '<3?'4%' ?9B5)'
23@' 2>'4%'56 ' 8B >4 >'4%'$48 .'23@' 16'2AA 43'2>'345'
3 2A' 3'5A ' 59A'4%' 1>B5 >' -+' 6 *0+
/F' 0'6*' &' - `N' 6 ' '2@@ @)'345' 43A9' 54' @ 53
? 6'56 '74)'23@'54' 82><'84>' 5>43?A9' 216' B >4@)' ; 5'
2A 4'54' ?? 5'5625' 48 '5 8 '7 AA' 35 >: 3' ; 57 3'56 ' %>5'
74'4%'56 ' >2; 23'A41 5)'23@'5625' 76 16' 3 ' -+' 6 '
*0+') ')
' T' '3 %,' ' '*&.' %*' 3' *$%' 3*%0' Q1 R' 6 ' 5' 2BD
B 2>'5625'56 ' 1 3'4%'56 ' : 43'72 ' 5 AA' 3' 56 '5 23BA ' 6 '
1>1 8 5231'4%'56 ':41'B>41 @ 3?'%>48'9'56 '%4 >'64>3'4%'56 '
?4A@ 3'2A52>)I' '2' 5>43?' 3@ 125 43'4%'56 ' : 3'@ BA 2 >.'23@'
BA2 3A9' 35 825 '5625'56 ' 3'4%'8 3' 8 5'62:' ; 3' : 9'?> 25)'
76 3'56 '2A52>)' 76 16'72 '56 >' 2315 2>9'23@'B>45 15 43)'12AA @'
2A4 @'%4>': 3? 231 ' * B)' 6 *0+
/N' T' ** ' 3' *$%' 0) (' Q1 A' 6 'H %4 >'23? A I'2>'56 '
%4 >' A523)'4>'%4 >'A 2@ >'4%'56 ' >< '4>' 56 8 23 ' '4>'56 >'
7 >'%4 >'B> 31 B2A' A523 '4>'<3?@48'4%'56 ';4>@ >3?'43'
56 '>: >' B6>25)'43'25'&2?@2@)'23456 >'25' 282 1)'2'56 >@'
25' A BB4)'23@'2'%4 >56'25'143 8' 3' 2' 34>' 6 ' ;)' '
5@' :>2A'9 2>'2%5 >72>@)'23@'56 ' A523'7 >'H';4 3@I'23@'
> 5>2 3@'%>48' C5 3@ 3?'56 >'143G 5'% >56 >'5623'56 '14 3D
5> -2@+4 3 3?'56 ' B6>25)'B> 8 2> A9' ;9'56 '?44@'B>4:@ 31'4%'
'#4@)'23@' 143@2> A9)'*;9'56 '1> 2@)'4>' CB @5 43'4%' >4B 23'
6> 523' 354'56 ' 4A9'"23@)'2;4 5'56 ' 3@'4%'56 'AA56)'23@' 3'
56 '/F5A'23@' /56'1 35 > ' & 5'76 3'23' 3@'72'B 5'54'56 '
1> 2@)'23@'56 ' 6> 523'2;23@43 @'56 >'143G 5' 3' 9> 2'
23@' 2A 53'5472>@^'56 '1A4 '4%'56 '/ 56'1 35 >9)'56 3' H 56 '
%4 >'23? A T 7 >'A44 @56 ' >< '?2 3 @' : >2A' : 154> '
4:>'5 A ' 2>52>)'43' 43 ' @)'23@'56 ' 6> 523'43' 56 '456 >.'
23@' 5683 23)'%>48'7648'56 'B 4BA'7 >'2%5 >72>@ '12AA @' 56D
823)'; 3?'B-41A2 >2 @' A523)'%4 3@ @'2'3 7' 8B>' * +' 5 , '
-+' 6 *0+
=' $' (

3 ' ' 0 3' %$ - ' *$0, 3+ ' , !' , ' 3 '3 ' 0(/'.3*&%'. (4% ' * ,'S ')(*%&

* ' ')/*'ZK*"K(*'%16'.'162*6+ ' 16')-*' #"42' %16')B*1) ' *(6*2+!'
+' %16')"104*+' %16' 1%)'"1+' +/%((+**')/*'2' B/'</' +%)' -*#"2*' "6' "1' /*'2' +*%)+!' #*((T$+' '
6*%6' -"6'*+')/2**' 6% +' %16' %1' /%(#Z!' %16' 4K"1')/*'2'#%<*+!' %16'B"2+/'KK*6' "6!
+/%((1")'+4##*2')/*'2' 6*%6'-"6'*+')"'-*'K4)' ' % '10!' -'0'5*')/**)/%1.+!' ' "26'
'1'02%5*+ "6' (&'0/) !' B/'</'%2)!' %16' B%+)!' %16'
A ' 16')/* ')/%)' 6B*((' 4K"1')/*' *%2)/' %2)')"' <" & * ' -*<%4+*')/"4' /%+)')%.*1')"'
+/%((2*$"'<*' "5*2')/*&!' %16' &%.*' &*22 !')/**)/ '02*%)'K"B*2!' %16' /%+)' 2*'01*6
%16' +/%((+*16' 0'#)+' "1*')"' %1")/*2' -*Y AJ' 16')/*'1%)'"1+'B*2*'%102 !'%16')/
<%4+*')/*+*')B"' K2"K/*)+')"2&*1)*6')/*&' B2%)/'+' <"&*!' %16')/*')'&*'"#')/*'6*%6!'
)/%)'6B*()'"1')/*'*%2)/)/%)')/* ' +/"4(6'-*'$460*6!' %16')/%)'/"4'
AA' 16' %#)*2')/2**' 6% +' %16' %1' /%(#' +/"4(6*+)'0'5*' 2*B%26' 41)"')/ ' +*25%1)+'
)/*' K'2')' "#'('#*' #2"&' "6' *1)*2*6' '1)"')/*' K2"K/*)+!' %16')/*' ' +)""6'4K"1')/*'2'#**)' %16'
)/*&!' %16')/* ' +)""6'4K"1')/*'2'#**)' %16' 02*%)'#*%2'#*((' 4K"1')/*&' B/'</'+%B')/*&
02*%)'#*%2'#*((' 4K"1')/*&' B/'</'+%B')/*& A9' 16')/* ' /*%26'%' 02*%)' 5"'<*'#2"&'
A?' 16')/*'+%&*' /"42'B%+')/*2*'%'02*%)' /*%5*1'+% '10'41)"')/*&!' "&*'4K'/')/*2'
%2)/V4%.!' %16')/*')*1)/' K%2)' "#')/*' <') 16')/* %+<*16*6'4K')"' /*%5*1' '1' %'
)' 2' #*((!' %16' '1')/*' *%2)/V4%.*' B*2*'+(%'1')"'#' <("46' %16')/*'2'*1*&'*+'-*/*(6')/*&
+*5*1')/"4+%16' %16')/*' 2*&1%1)' A?' 16')/*'+%&*' /"42'B%+')/*2*'%'02*%)'
B*2*'%##';'0/)*6!' %16'0%5*'0("2 ')"')/*' "6' *%2)/V4%.*!' %16')/*')*1)/' K%2)' "#')/*' <')
"#'/*%5*1 #*((!' %16' '1')/*' *%2)/V4%.*' B*2*'+(%'1')"'#'
ACT' /*'+*<"16' B"*' '+' K%+)' 0,' -*Y +*5*1')/"4+%16' %16')/*' 2*&1%1)'
/"(6!')/*')/'26' B"*'<"&*)/'V4'<.(B*2*'%##';'0/)*6!' %16'0%5*'0("2 ')"')/*' "6'
A:' 16')/*'+*5*1)/' %10*(' +"416*6' "#'/*%5*1!'+% Y
%16')/*2*'B*2*'02*%)'5"'<*+'1'/*%5*1!'+% Y '10!' /*'.'106"&+' "#')/'+' B"2(6'%2*'-*Y
'10!' /*'.'106"&+' "#')/'+' B"2(6'%2*'-*Y <"&*' 3 '8&0),* ' "42' "26!!'%16'"#'/'+'
<"&*' 3 '8&0),* ' "42' "26!!'%16'"#'/'+' /2'+)' %16' /*' +/%((2*'01' #"2' *5*2' %16'
/2'+)' %16' /*' +/%((2*'01' #"2' *5*2' %16' *5*2

/ ' T ' 3 ' 0 3'- % '* ' 3 '.& /' ((' ?3 %9 3?'5625'56 '5 356 ' 7B ' 84> 'B>4B >A9'%4>8' 56 ' %> 5': > ' 4%' 56 ' 57 A%56' 162B5 >:'
B2>5'4%'56 ' %A4A25>4 ' 16 >16' 64 A@'A4 ' 5 'B47 >' $3'@# 6 ' %4>' 5' 2BB 2> ' 54' ; ' 56 ' ; ? A3 3?' 4%' 2' 3 7' ;+ 15' H' 6 '
H'5 356)I' 8 23 3?'2': >9' 143 @ >2;A 'B2>5' 4%' 5 'B47 >' 62AA' ; ' 5 8BA ' T ' 72 ' 4B 3 @)I'5625')' 84> ' 4B 3' @ 14: > '7 > '347'
52< 3'2729' * # &$ 82@)' 23@' 56 ' 89 5 >9' 4%' #4@' 72 ' > : 2A @' 54' 56 ' >4B6 5) H' " ?653 3? ' 23@' :4 1)'Q1 I' 2> '56 '
/N' 3 ' .*0,'%'* '& '- 2' Q1 R' " 5' 345' 239' B > 43' 82? 3)' 2A' 143148 5235 ' 23@' 25D
6 '2@@)' 5625'56 '16 >16' 7 AA' ; '%> ' 3' 56 '56 >@' B > 4@' %>48' 4BD 5 3@235 ' 4%' 56 ' : 3 ' B> 31)' 23@' B 1 2AA9' 25' 56 ' ? : 3?' 4%'
B4 5 43' 23@' B > 1 5 43)' 54' 5>9' 56 >'%2 56' 23@' B25 31)' 239' 84> ' 6&(, %0 ≠ W 5&.3 (0,' 3&' 0) ('&)3 ' 6&3' 3 ' 3 7' A27 '23@' 3 7'> : A25 43)' C4@' C ' /L'.' 162B' : '0.' : '0'
5623' 3'56 '57 4%'4>8 >' B > 4@ .' %4>' 2'56 >@' 74 ' '54' %4AA47' B43' ,%)*0' 0,'-% ' &(+' H 3 ',%)*0'4 &0)' . ' ,*60' -+' 6 *0+
56 ' 143@)' 54' 5>9' 564 '5625'@7 AA' 3 56 ' 2>56 ' 6 0+ &0 *' 3 ' %3'- % .$ 8' 3'6* 0+
/0' 0,' 3 ' '03' 0) (* $0, ' 2>' 347' 148 '54' 56 ' ')/*2*' %KK*%2*6' %' 02*%)' 'B"16*2' 1"2!
: 356'23@'A2 5'5> 8B 5)'4>' 56 '56 >@' 74 '5> 8B 5' 5'56 ' 4 3@D '1' /*%5*1' %' B"&%1' <(")/*6' B')/
3?' 4%' 56 '5> 8B 5' 56 ' 56 >@' 74 ' 1488 31)' 76 16' ' >256 >')/*+41!' %16')/*' &""1'416*2' /*2'#**)! %16'8
8BA @'5623' CB> @)' 2 ' 5' 7 AA' ; '@ 1> ; @' 84> ' % 9' 6 > D 4K"K' /*2' /*%6'%' <2"B1' "#')B*(5*' +)%2+
2%5 >' 6 '56 >@' 74)' ;>4 ?65'43'56 ' 362; 5235 ' 4%'56 ' 2>56)' '
56 '> 3'23@' @473%2AA' 4%' 56 ' 235 16> 5 23' < 3?@48.' 23@' 56 3)'
23@' 345' 5 AA' 56 3)' 2114>@ 3?' 54' 56 ' 6 2: 3A9' 164>)' 9'56 ' < 3?D
@48 ' 4%' 56 ' 74>A@' 7 AA' ; 148 '56 ' < 3?@48 ' 4%'4 >' "4>@' 23@' 4%'
' 6> 5)' 23@' ' 62AA' > ?3' %4>' : >' 23@' : >I' 5' *463' '
>2B5)' 23@)' 2 ' 5' 7 >)' 6 >> @' 2729' 54' 2' : 7' 4%' 56 ' 62BB9' B > 4@)'
7 564 5' 143 @ > 3?' 56 ' 5 B ' B> 1 @ 3?' 23@' 143@ 15 3?' 54' 5 ' 5'
56 ' 28 '5 8)' H' 56 ' %4 ' 23@' 57 359' A@ >)I' 4>' 56 ' 8 3 5 > ' 4%'
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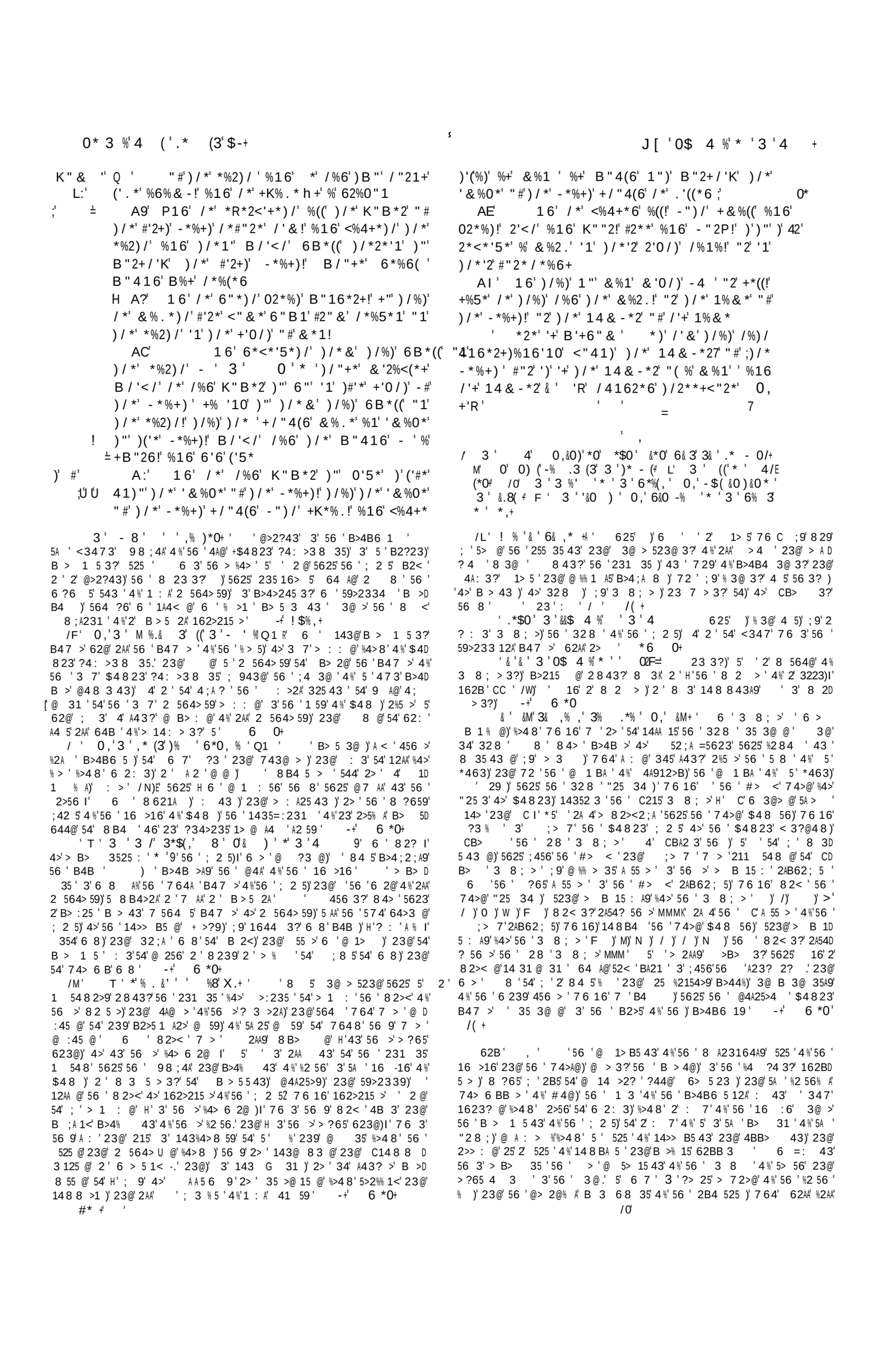

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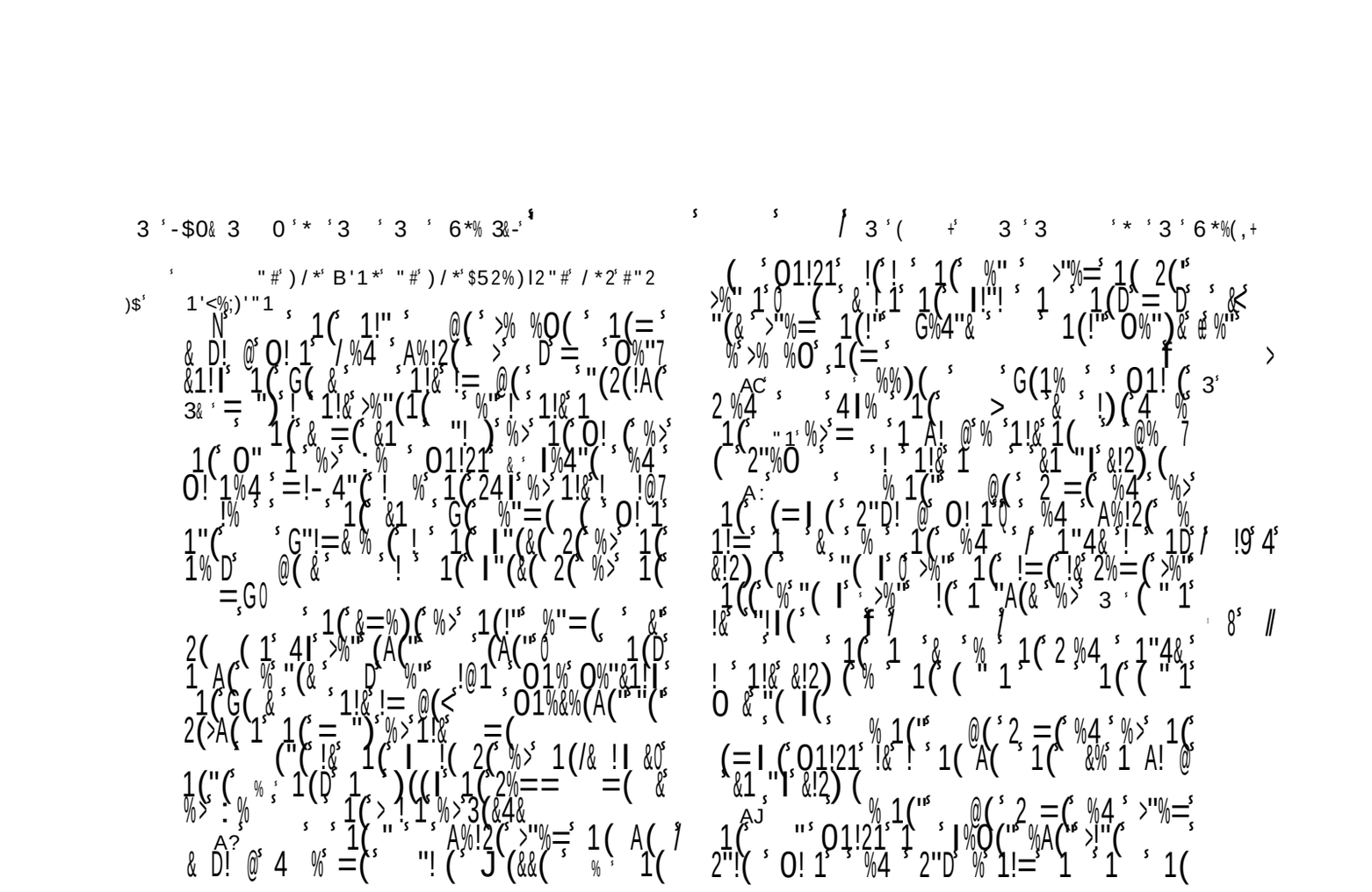

JT ' 3 ' 3&%,' 0) (' *((* 6 , ' 3456 >' 23? A' 82@ ' B>4D 1A2 8 25 43' 4%' 84 5' 5 >> ;A ' : 3 ' + @?8 35 ' B43' 2AA' 6> D 5 23)' 7 64)' 2%5 >' 56 ' A ?65' 4%' 56 ' > %4> 8 25 43)' 23@' 56 ' B> 216 3?' 4%' 5> ' > A ? 43' 62@' ; 3' ; 547 @' B43' 56 8)' 64 A@' 7 A% AA9)' 23@' ; 9' 2' A4 : ' %4>' 7 4>A@A9' 23@ ' : 1 4 ' ?>25 % 125 43)' 148 BA9' 239' A43? >' 7 56' 56 ' 3+ 315 43 ' 4%' 56 ' &2 ; 9A43 6' 1488 3 59)' 23@' 8 ; >21 ' 5A ' 74> 6 B' 4%' 56 ' @4A25>4 ' 16 >16)' 56> 25 3 3?' 56 8' 7 @ ' 56 ' 28 ' @ 5> 15 43' 5625' 72 ' 443' 6 > 2%5 >' 54' %2AA' B43' 5' 6 16' @ 5> 15 43' ' 6 > ' @ 1> ; @' 3@ >' 56 ' 28 ' 82? 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' * ' 3 ' &0 'G Q 1 R' > 3' 56 ' B25 D 31 ' 23@ B > : >231 ' 4%' 5A5 ' 2 35 ' 62AA' ; ' 823 % 5 @' 23@' B >D % 15 @)' 5625)' 3457 56 523@ 3?' 2AA' 56 ' : A ' 4%' B > 1 5 43)' 56 9' 1435 3 ' 143 5235' 3' 4 ; @ 31 ' 54' 56 ' 1B 8 8 23@ ' 4%' # 4@)' 2 ' 56 ' > A ' 4%' 56 >' > A ? 43)' 23@' 5 2@%2 5A9' 8 2 352 3' 56 ' 5> 56 ' 4%' 6> 5- ' > : A25 43)' 3' 4BB4 5 43' 54' 2AA' 456 >' @415> 3 ' 23@' 7 4>D 6 B)' ; 9' 7625 4 : >' 2 564> 59' 8 B4 @' *%' 0+ / ' 0 ,' ' 3 %,' ' '*&. ' Q 1 R' 6 ' : 4 1 ' 4%' 56 ' 23? A ' 62@' B>434 31 @' 56 ' B 3 68 35 ' 4%' 564 ' 764)' %4>' 74>A@A9' B >B4)' > 1 : 3?' 56 ' 235 16> 5 23' 82><)' @ 39' 56 >' "4>@' ' : 4 1 ' %>4 8 ' 6 2: 3)' %>4 8 ' 56 ' 56>43 ' 5 A%)' 143%>8 ' 56 ' @ 3 31 25 43)' 2@@D 3?' 56 > 54' 56 ' 143 4A25 43)' 5625)' %' 56 ' % >9' 5> 2A' 64 A@' B>41 @' 54' 5 ' A2 5' 52?)' : 3' 5 8 B4>2A' @ 256)' 56 ' @ 256' 62AA' ; ' ; A @2' 62AA' 35>4@ 1 ' 56 ' 8 2>59>' 54' 23' 5 >32A' %> @4 8 ' %>4 8 ' B2 3' 23@' 5>4 ;A)' 23@' 6 ' %% > 3? 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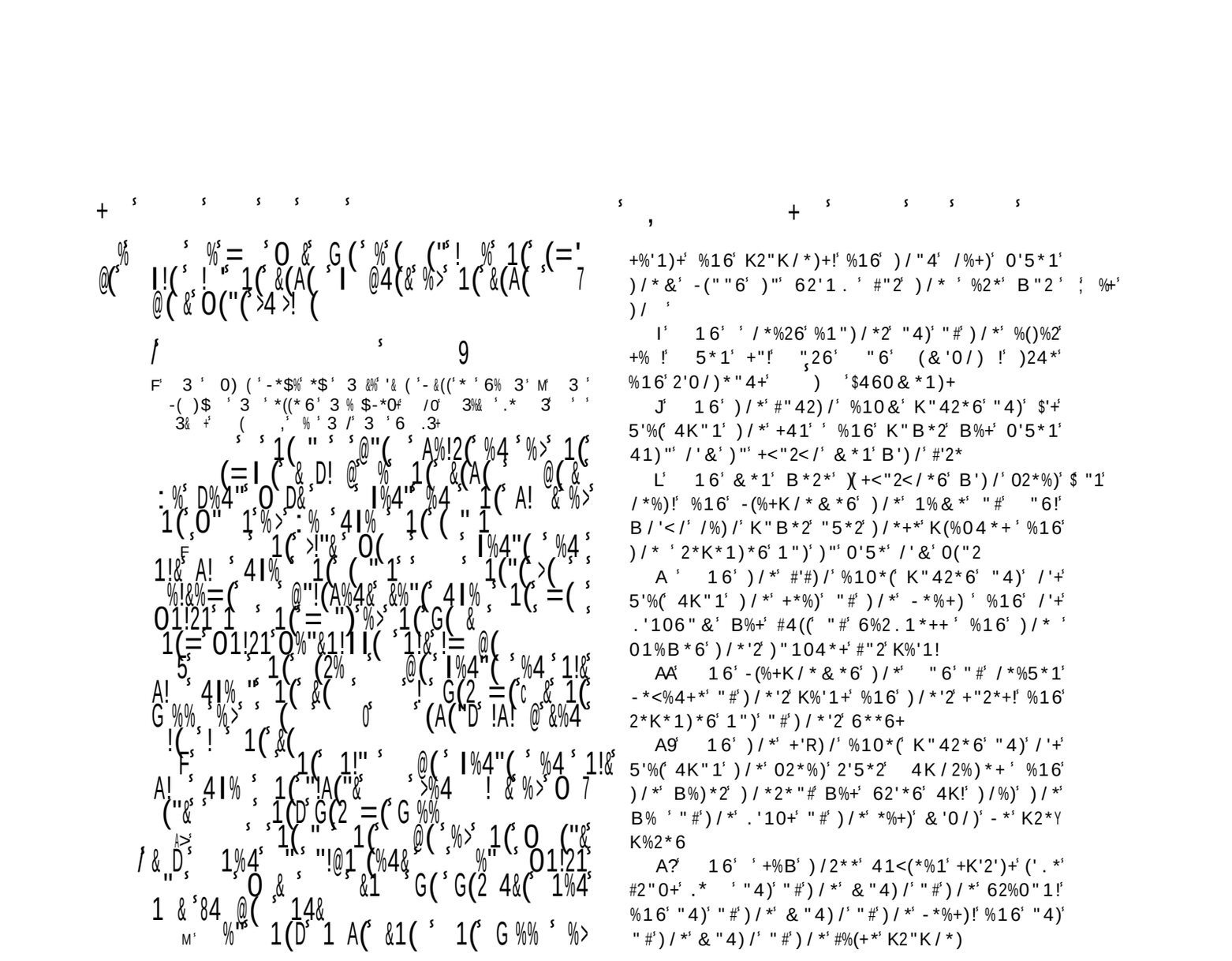

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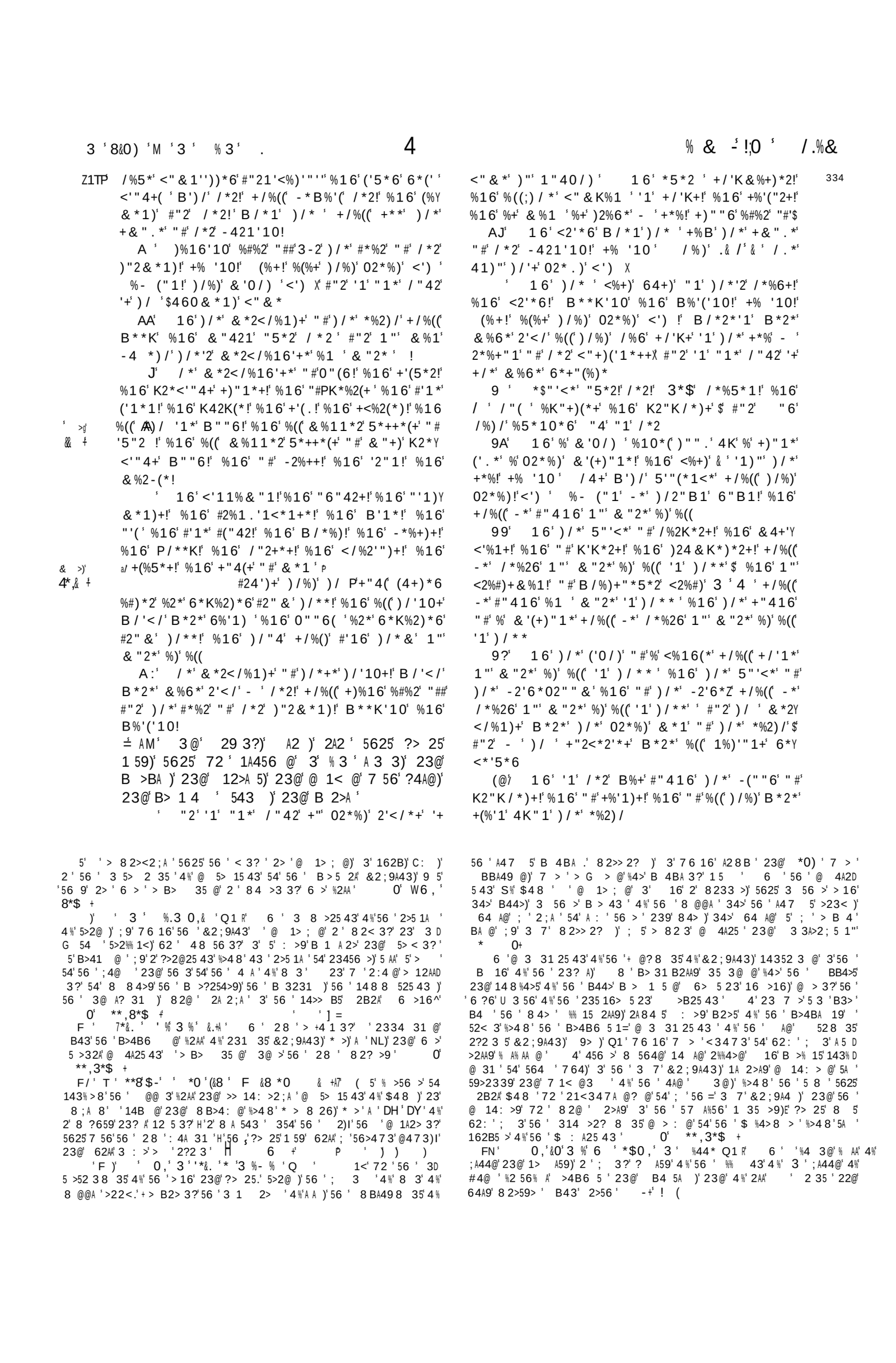

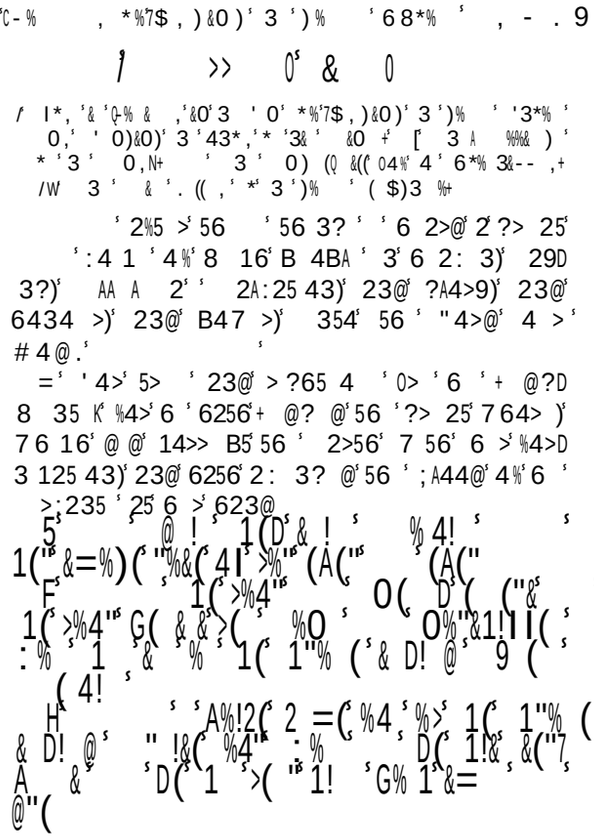

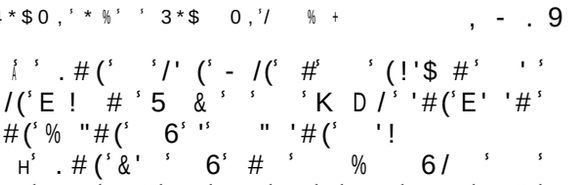

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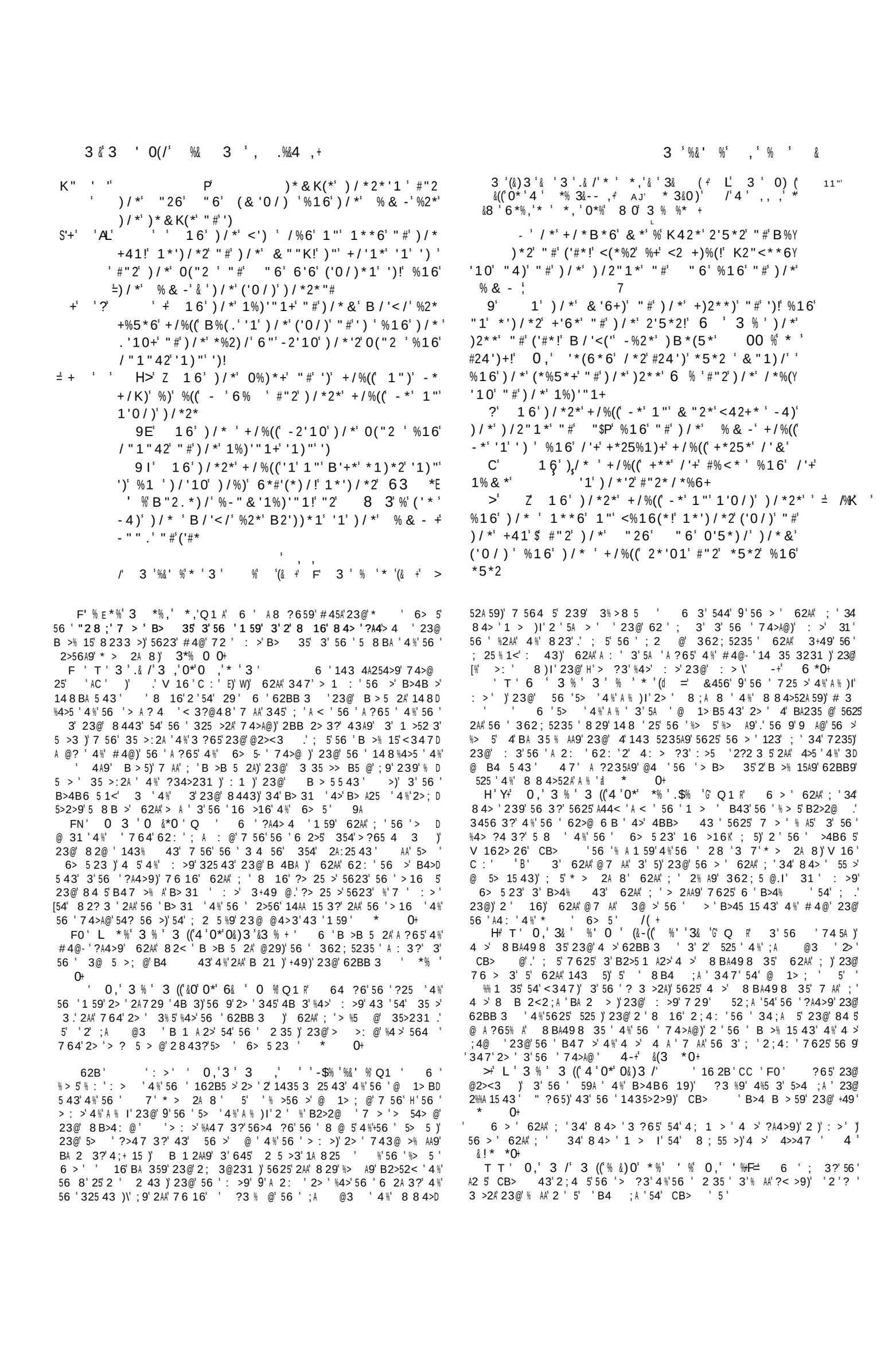

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!" + "' F ' M 221' ;4>3' 3' 56 ' / 56' 9 2>' 4%' ;>2628- 2? ' 45' A43?' 2%5 >' 54' "45' 2> ' ;4>3' 42;' 23@' 8 843)' 6 ' 43 ' 25' 56 ' 28 ' 5 8)' 23@ 6 ' ?>23@ 43

/LJF "' 2??2>' 23@' 682 A' 25' 2>26- ' > G 5' 2> ' 12 5' %4>56

/LWL "' /0' 2A26)' 56 ' %4 >56' %>48' 426)' @ 56

/LW/ #4@' 5 8B5 56' ;>2628' 54' 4%% >' 221' ;>2D 628' ? : 56' B>44%' 4%' 6 ' %2 56' 23@' 4; @ 31

!" + 2>26' @ 56' 25' ;>43' 3' 23223' 3' 56 56' 9 2>' 4%' 6 =?

&\>D+ , 221' 82>> 5A> $; <26' 56 ' @2 ?65 >' 4% & 56 A)' 56 ' 43' 4%' 264>)' 3' 56 ' N 56' 9 2>' 4% 6 ' 2? ' p')')')'

/LNM "' / / 6 8)' 56 ' 43' 4%' 426)' @ 56

/L W , ' FN .*4' 23@' 2 ' ;4>3' 3' 56 ' DU 3' 9 2>' 4%' 56 >' %256 >' 221- ' 2?

/LF/ , ' W' "' /W ;>2628' @ 56)' 2? @' / W0 9 2> ; >)' 56 ' % %56' %>48' 426)' @ 56K' %>48 6 8' ;>2628' 23@' 6 ' B4 5 > 59' 7 > ' 12AA @ ;> 7 ' 0# C : '

#<ZD , ' N 2)' 2? @' %4>59' 9 2>)' 82>> 56' * @ 56' 56 @2 ?65 >' 4%' & >' 56 ' 55 5)' 23@' &2 6 8256 56 ' @2 ?65 >' 4%' A43' 56 ' 55 5 '

<<H+ , ' , " 682 A' @ 56)' 2? @' / W 9 2> *214;' ; 9' 6 ' 8456 >-' 3 5> 1543' 4;52 3 56 56 ' ;A 3?' %>48' 221' 6 ' %256 >)' 76 16' 72 ' @ ?3 @' %4>' 2 ' B4>>' 76 16' 6 ' ' %4>1 @ 54' %A ' 354' 4B4528 2)' 54' 6 3' 6 ' ;>456 >- >2? ' B43' 56 ' 729' 2> ' %4> 54A@' 354' 6 8' 3 2' : 43' 56 ' ;A 3? ' 4%' 6 ' B4 5 > 59' 5' A 3?56' 6 ' 148 56' 54' 6 ' 31A ' "2;23-' 64)

& %4> # 3 ' $

%' " 26' 2> ' ;4>3)

/WOL F) $; 3)

) 8 43)

/WOM N) " :)

/WOO 0 * @26)' %>48' 7648' 56 ' * 7 ' > 1 : ' 56 >' 348 32543

' F $216 A)' 62: 3?' ; 3' A43?' ;2>> 3)' 25' A 3?56' ; 2> 56' *4 B6.' *214;)' @ > 3?' 54' @ B2>5)' ' B > 2@ @' ; 9' "2;23' 54' >: ' C' 9 2> ' 84> ' %4>' 48 ' B2>5' 4%' 6 ' %A41<

/W J *214;)' 2%5 >' 6 ' 62@' ; 3' 57 359' 9 2> ' 3' 4B4528 2)' A 5 ' %4>72>@' 43' 6 ' +4 >3 9' 648 72>@)' 7 564 5' 21G 2 35 3?' 6 ' %256 >' 4>'

F ;>456 > ' 3' A27 ' $216 A' 5 2A 56' 6 >' %256 >- ' ?4@)' 23@' ' B > @' ; 9' "2;23 ' *214;' ; 9' 6 ' B> @ 31 ' '> 1431 A @' 54' 6 ' ;>456 >' 2 ' ' 7> 5A 56' 7 56' 23' 23? A' 25' 3 A)' 23@' ' 12AA @' >2 A

, ;4 5' 56 ' 5 8 ' 326)' *214;-' @2 ?65 >)' ' @ %A47 > @' ; 9' 16 8' 56 ' 43' 4%' 284>'

1

, ' /M $216 A' ' @ A: > @' 4%' & 3+28 3' 43' 56 ' 729' 57 C5' & 56 A)' 4>' & 56 A 6 >3)' 23@' B6>256)' 3@' @ ' 3' 16 A@; @' 48 ' 56 3<' 5625' *4;') K : @' 2;4 5' 56 ' 5 8

, * @26' A 56' 7 56' 628 2>' 6 ' @25 ?65 >' 3'

/M :7' 3' @ ?

/WFJ , *4 B6' ' 625 @' ; 9' 6 ' ;> 56> 3)' 23@' ' 4A@

*4 B6' > 5 56' 56 ' 5 8 B525 43 ' 4%' 6 ' 82 ' K>' 7 % .' 6 ' ' %2A A9' 211 @' ; 9' 6 >)' 23@'

" 5' 354' B> 43 ' ' 35 >B> 5 56' 56 ' @> 28 ' 4%' 62>246- ' ; 5A >' 23@' ;2< >)' 76 16' 148 ' 54' B2 ' 2114>@ 3?' 54' 6 ' 35 >B> 525 43

/W/M , ' FL 221' @ 5;)' 2? @' ' 9 2>)' 23@' ' ; > @' ; 9' 6 ' 43)' *214;' 23@' 2

" ' F0) *4 B6)' 35 >B> 5 56' 62>246- ' 574' @> 28 .' 6 ' ? : 56' 62>246' 14 3 A)' 23@' ' 82@ ' ?4D : >34>' 4%' 56 ' 764A ' A23@' 4%' ?9B5

NW) > ' ; ? 3' 56 ' : 3' 9 2> ' 4%' BA 359' 3' 56 '

0) A23@' 4%' ?9B5 ' ;4 5' 56 ' 5 8 ' 232 6' 23@' B6>2 8)' *4 B6- ' 574' 43)' 2> ' ;4>3' 4%' 3256)' 56 ' @2 ?65 >' 4%' 45 B6 >26)' B> 5' 4%' 3 '

0N > ' ; ? 3' 56 ' : 3' 9 2> ' 4%' %28 3

" *214;' 3@ 56' 6 ' 5 3' 43 ' 54' ; 9' 148 ' 3'

)' F)' ?9B5.' 56 9' 2> ' 8B> 43 @' ; 9' *4 B6' %4>' B .' ; 5' 2> ' 5' 25' A ; >59' 43' 143@ 5 43' 4%' ; > 3? 3?' & 3+28 3.' 23@' 8 43' ' < B5' 2' 2' A @?

P " *214;' ' 7 56' 8 16' @ %% 1 A59' B > 2@ @' 54

" ,

" , *214;)' 62: 3?' 4%% > @' 21> % 1 ' 54' #4@' %4>

A 3)' 23@' / 56' 9 2>' 4%' 6 ' 2? ' ' ' 25 @' K2 56 ' A23@' 4%' #4 6 3

/W N " , *4 B6' ? 55 56' 2AA' 56 ' 843 9)' A23@)' 23@

P /W

/MLJ " , *214;' 2@4B5 56' B6>2 8' 23@' 232 6.' 23@

"

#"2 AC : A

*4 A 2' > 72>@ ' %4>' 6 ' A2 ; 4 >.' B >B4 3?' 2%5 >72>@ ' , ' J ' 54' 82< ' 72>' B43' 56 8

8 ; ' &2A228)' %4> 72>3 @' 4%' #4@)' > % 56' 25' %> 5' ' ' >+ 54' 148 .' ; 5' ; 3?' 35' %4>' 2' 143@ 5 8)' 6 ' 8 B4>5 3 56' #4@' 54' A 5' 6 8 ' ?4)' 23@ ?4 ' 7 56' 2' B >B4 ' 3@ @' 54' 1 > ' >2 A2' ; 5' #4@)'

F' 5' ' 4%% 3@ @' 56 > 25)' 82< ' 56 ' @ 8 ;' 2 ' 4%' 56 ' >' D+ 7 U2>@)' 43' 76 16' 6 ' >4@)' B 2< 3?' 3' 2' 823- ' :4 1)' 54' > B>4 : ' 6 ' %4AA9

8 ; &2A228' 57 1 ' 4%% > ' 21> % 1)' 23@' 74 A@' %2 3' 62 : ' 1 > @' >2 A)' 54' ?>25 %9' &2A2<' 56 > D 5 3 .' ; 5' ; 3?' %4>1 @' 56 > 54' ; 9' 56 ' B > 5' 4%' ' 0 ' #4@)' 3 5 2@' 4%' 1 > 3?)' 6 ' ;A 56' 56 8' 2AD *4 6 2 54? 56 >' .' %4> 5 AA 3?' 7625' % A 1 59' 255 3@ @' , ' / 56 8)' 23@' 7625' 12A2 8 5 ' 64 A@' ; %2AA' 56 >' 3 8

8 ; &9' %2 ' 2@ : 1 ' 56 ' 748 3' 4%' 42 ;' 23@' ' , @ 23' 2> ' 5' 43' 74><' 54' 5 >3' 56 ' >2 A 5 ' /)' F)' H' Q 2729' 54 @4A25>9 ' 6 > %4> ' #4@' 148 823@ ' 4 ' % > 5' 54' 52< ' 2AA' 56 ' > 3?A 2@ > ' 4%' 56 ' @ 4>@ >)' 23@' 54' 623?' 56 8' B' ; %4> ' 56 ' 3)' 23@' 56 3' ? : ' 3>@ >' 54' 56 ' + @? ' 54' B 5' 54' @ 256' 2AA' 16' 2 ' 62@' +4 3 @' 56 8 A: ' 54' 5' , ' ' &22A B 4> ' "2 5' 4%' 2AA' #4@' 3@ ' 2' BA2? ' 2A8' B43' 56 ' B 4BA)' 7 6 > 4%' @ ' F) ' 8 3' 3' , ' FL ' 43 ' @29.' 76 16' 2@@ @' 54' 56 8' 76 16' 7 > ' $: ' /N ' 623? @' 23@' < AA @' 7 56' 56 ' 74>@' 284 35' 3' /' 4>)' ' L ' 2AA' 54' FN)

8 ; ' 6 3 62 ' 56 ' 43' 4%' A 2U2>)' ; 9' < AA 3?' , 5' V 8 >)' 56 ' 16 %' 4%' A ' %256 >- ' %28 A9)' 23@' 2A8' 4U ; ' 56 ' @2 ?65 >' 4%' V >)' 2' B> 31 ' 4%' 56 ' , ' ' @ 23 5)' 2BB 2 56' 56 ' 7>256' 4%' #4@)' 23@' 8 ; 56 ' BA2? ' 1 2 56 ' #4@' 56 > %4> ' 55A 56' 56 ' , ' -6 ?6' B> 5644@' %4>' : >' B43' 56 ' 64 ' 4%' /) /W 6 3 62)' 23@' 148 823@ ' 5625' 72>' ; ' 82@ ' B43' 56 ' @ 23 5

8 ; 4 ' 23@' A 2U2>)' ; 9' #4@- ' 148 823@)' 3' , 56 ' BA2 3' 4%' 42 ;)' 3 2>' 354' *4>@23)' 4 : >' 2?2 3 5' * > 164)' 3 8 ; >' 56 ' B 4BA ' %>48 ' 57 3D 59' 9 2> ' 4A@' 23@' B72>@)' 23@' % 3@ 56 8' 54' ; ' M /)W ' 8 3)' ; @ ' 56 ' " : 5)' 764 ' 3 8D ; >)' > 1<43 3?' 56 8' %>48 ' 43 ' 84356' 4A@' 23@' B72>@)' 148 ' 54' F) .' 23@' 56 3' 4 ' > 1 : ' 148 823@' %4>' 56 ' B2>5 3?' 4%' 56 ' A23@' 4%' B>48 [2843?' 56 ' >2 A 5

, 6 ' @2 ?65 > ' 4%' V A4B6 62@' 62 : ' 56 >' %2D /)F) 56 >- ' A23@' B2>5 @' 2843?' 56 8)' %4>' 7235' 4%' ' 82A .' 56 ' 4112 43 ' 56 ' A27' %4>' 11 D 43' 3' 6 > 52? ' 54' ; ' 82@

/F)' F ' #4@' ?3 % ' 54' 4 ' 5625' 6 ' 62A' @ .' 5' ' 23@' *4 6 2' 56 > B43' ' @ 1A2> @' 54' ; ' 6 ' FM)' FW)' FL 11 4>.' B43' 7648' 4 ' A29 ' 6 ' ;23@)' 23@' ? : ' 6 8' 3 5> 1543 ' : >2A' A27 ' 2> ' 82@ '

8 ; 7 A: ' 564 23@' 4%' 56 ' >2 A 5 ' 3@ >' 56 ' 148 823@' 4%' 6 3 62 ' :23G 6' 56 ' @ 23D 5)' 23@' B 5' 54' 56 ' 74>@' 2AA' 56 ' 82A ' 2843?' 56 8' 7 56' 56 >' % : ' B> 31)' 23@' 2843?' 56 8' *4 6 ' V >)' 56 ' %256 >' 4%' 4U ;)' 23@' &2A228' 56 ' 7 D U2>@' .' ; 5' 56 9' 2: ' 56 ' 748 3' 2A : ' 25' 76 16' 4 ' ' 7>456)' 23@' 148 823@ ' 5625' : >9' 82A ' 16 A@)' 23@' 2AA' 56 ' 748 3)' C1 B5' 16' 2 ' ; ' : >? 3)' ; ' < AA @

8 ; ' 6 ' A23@ ' 76 16' ; A43? @' 54' 643' 23@' ?)' ' 328 A9)' 2AA' %>48 ' 56 ' > : >' >343' 54' 84 35' 5 ' ' >843)' 4 ' @ : @)' 23@' ? : ' 54' 56 ' 5> ; ' *4 6 2 4%' $; 3' 23@' #2@)' 23@' 56 ' 62A%5> ; ' 4%' 2 ')' Q' 2 6.' 4' 5625' 56 >' B4 43 ' A29' 43' 56 ' @ ' *4>@23.' 3 : >56 A ' 56 9' 2 5' 56 ' > 5' 4%' 56 ' 5> ; ' 3' 2AA' 56 >' 72>)' 5 AA' 56 9' 62 : ' ; @ @' 56 ' 23223 5)' 23@' B4 @' 56 ' B>4D 8 @' A23@

5 , 4 ' 148 823@ ' 56 ' B 4BA)' 5625' 3' 56 >' B2 2? ' 4 : >' *4>@23' 56 9' 626)' 5' B' ?> 25

#"2 AC : A

5 543)' 23@' 3?>2 : ' 56 ' 3' 48 823@ 8 35 ' , 43' 56 8)' 7 @ ' 56 ' %4> 8 ' 4%' ; A 3?' B43' 84 35' , # > U 8)' 23@' 4%' 1 > 3?' 43' 84 35' ; 2A .' CD 64>5 3?' 56 8' 54' 4 ; >: ' 56 ' A27 ' 4%' #4@)' ; 9' 55 3?' ; %4> '56 >' 9 '56 ' ; 3 % 5 '5625' 74 A@' 3 '56 > 43

' 2A 4' > 3 7 ' 56 ' 14 : 3235' 82@ ' ; 9' #4@ ' 7 56' 56 8' 23@' 56 >' 16 A@> 3' 43' 84 35' 4> ;)' 23@' 2?2 3' B > 2@ '56 8' 54' < B' 5625' 14 : D 3235' ; 9' 2AA' 56 ' ; A 3? ' 23@' 1 >)' 76 16' 74 A@' 3@4 ; 5 @A9' %4AA47' 56 ' < B > ' 4>' ; > 2< > ' 4%' 5.' 9 5' 7 56' 2' B>48 ' 4%' B2>@43' / @ A : >231)' %' 25' 239' 5 8)' 62 : 3?' ; >4< 3' 5)' 56 9 62AA' > B 35' 56 8' 4%' 56 >' 3.' 23@' 5 AA ' 56 8' % >56 >)' 5625' #4@' 62@' 56 > %4> ' 56 ' @ 1A2> @' 6 ' 7 AA' 354' 56 8)' 54' 56 ' 3@' 5625' 343 ' 6 > 2%5 >' 4%% 3@ 3?' 62AA' B> 5 3@' ?34>231

4)' 62 : 3?' 7 > 55 3' 56 ' A27)' @ A : > ' 5' 54' 56 ' B> 5 ' 56 ' 43 ' 4%' " :)' 23@' 56 ' A@ > ' 4%' 56 ' B 4BA)' 54' ; ' < B5.' 56 ' 28 ' @29' 2A 4' 6 ' 7 > 5 ' 6 ' 84 5' C1 AA 35' 43?)' 23@' 5 216 ' 56 ' 28 ' 5G' 56 ' 16 A@> 3' 4%' >2 A' 54' ; ' 3?.' P 23@' 62 : 3?' % 3 6 @' 56 ' ; 44<' 4%' 56 ' # 7)' 6 ' 52< ' 4>@ >' 54' 62 : ' 5' # @' B' 3' 56 ' @ ' 4%' 56 ' 2><') ' ' [

! 4)' 347' @>27 3?' 3 2>' 54' 6 ' 3@)' ; A 56' P : >9' 5> ; ' 3' B2>5 1 A2>' ; 9' =29' 4%' B>4B6 19)' 2 : ' 43A9' 56 ' 5> ; ' 4%' 8 43

, 3' 56 ' 57 A%56' 8 GB56' 4%' 5 AA ' 9 2>' 6 ' ?4 ' B' 54' 84 35' ; 4)' 23@' %>48 ' 56 > ' @ 56)' 2? @' /F ' 9 2> .' 56 ' ; 4@9' 4%' 4 ' #4@' 5>23 A25 ' 4 5' 4%' 56 ' BA21 ' 76 > ' 6 ' @ @' 354' 2' : 2AA 9' 4%' 56 ' A23@' 4%' 42 ;)' 4 : >' 2?2 3 5' & 56 B 4>)' 23@' 56 > ' ; > 56' 5.' 3B>' @456' 239' 823' <347' 56 ' BA21 ' 76 > ' 6 ' A2 @' 5' 354' 56 ' @29 ' 6 ' >2 A 5 ' 84 >3' %4>' 6 8' 5 ; >59' @29 > ' 3@ ' 56 ' 3525 16)' 4>' % : ' ; 44< ' 4%' 4)' 14352 3 3?' 56 ' 6 54>9' 4%' F00F' 9 2> ' 23@' 23' 62A%)' %>48 ' 56 ' ; ? 33 3?' 4%' 56 ' 74>A@.' 23@' 56 ' ; 44<' 4%' *4 6 2' ; ? 3 ' 7 56' 56 ' 5 9 2>' 2%5 >' 56 ' @ B2>5 > ' 4%' 56 ' 16 A@> 3' 4%' D >2 A' 4 5' 4%' ?9B5

*4 6 ' *4 6 2)' ; 3?' 143% > 8 @' 3' 6 ' ?4 : >3 8 35' ; 9' #4@)' 3@ ' %>4>56' B ' %>48 ' 6 55 8' 54' 56 ' 1 59' 4%' * > 164)' 764)' ; 3?' 62>;4 > @' ; 9' $2 ' 62 ;)' 2> ' B> : A9' 35' 2729)' 76 3' 2>16' ' 82@ ' %4>' 8

B43' 56 ' 5 356' @29' 4%' 56 ' % > 5' 84356)' C -%&(' E' 54' 7 5)' 56 ' 28 ' @29' 5625' 56 ' 2 162A' "28 ;' 72 ' 54' ; ' 164 3' 4 5' 4%' 56 ' %A41<)' 56 ' >2 A 5 ' 3@ >' 56 ' 143@ 15' 4%' *4 6 2)' 2' 59B ' 4%' * [6> 5)' ?4' B' 4 5' 4%' 56 ' > : >' *4>@23' 354' 56 ' B>48 @' A23@' 4%' 23223)' 2' 59B ' 4%' 2' 84> ' 6 2 : 3A9' 14 35>9 ' 6 9' B2 ' 56>4 ?6' 56 ' > : >' 43' @>9' ?>4 3@)' 56 ' 725 > ' ; 3?' %4>' 5625' B> 35' @ : @ .' %4>' 2' 8 84> 2A' 4%' 76 16' , 8 >21 A4 ' B2 2? ' *4 6 2' 5 ' B' 57 A: ' 543 ' 3' 56 ' : >9' 16233 A' 4%' *4>@23)' 23@' 52< 3?' 57 A: ' 456 >' 543 ' 4 5' 4%' 56 ' 8 @ 5' 56 > 4%' 5 ' 56 8' B' 25' # A?2A)' 56 ' BA21 ' 76 > ' 56 9' 3 C5' 3128B

, 6 ' @29' %4AA47 3?' *4 6 2' > 3 7 ' 56 ' ' 4%' 1 >1 81 43)' 76 16' 62@' ; 3' 48 55 @' %4>59' 9 2>

A ! B43' 56 ' %4 >5 356' @29' 4%' 56 ' 28 ' 84356)' 3' 56 ' : 3 3?)' 56 ' >2 A 5 ' 1 A ; >25 ' 56 >' % > 5' B2 4: >' 3' 56 ' A23@' 4%' 23223

AA!A9! C5' @29' 2%5 >' 56 ' 2 4: >' 82332' 1 2 56 ' >' "4>@' *)' 2B52 3' 4%' 6 ' ' 256 >-

& %4> $ / ///M / 2>2' , 3?' 7 6 > : >' 5' 7 35)' 2%5 >' : 3' 8 4356)' ; 9 56 ' 2@: 1 ' 4%'56 >' B> 5)' 56 9' 3@' 64 8 ' 56 2><' 2?2 3' 7 56' B> 35 ' 23@' ? %5 ' 354' 56 ' A23@' 4%' 56 ' >2 A 5)' 23@' 5' ' ;>4 ?65' 54 & 56 6 8 ;)' 7 6 > ' 0) W ' 8 3' 2> ' 8 5D 5 3' %4>' A44< 3?' 354' 56 ' 2><' '>4 8 ' 6 31 ' 5' ' 12>> @' 54' 56 ' 64 ' 4%' ; 32@2 ;' 3' ! > +256 + 2> 8)' 7 64' 2315 % 56' 6 ' 43' A 2U2>' 54' < B' 5 , %5 >' 57 359' 9 2> '56 ' >2 A 5 ' ; 9' 2 8 A- B > 2 43' 4A 8 3A9' > B 35' 25' UB 6)' 23@ B43' 56 >' 143 : > 43' #4@' ; 9' 56 3@ >' %>4 8 ' 6 2: 3' @ A : > ' 56 8' %>4 8 ' 56 ' 3:2 43' 4 % 56 ' 6 A 5 3)' 7 64' 2> ' ;@ @)' 56 ' 623@ 4%' 56 ' "4>@' ; 3?' 2?2 3 5' 56 8' 2AA' 56 ' @29 ' 4%' 2 8 A ' P , ' 2 8 A' ; 3?' ?>4 7 3' 4A@' 52< '%4>' 6 ' 2 5D 235 ' 3' 56 ' ?4 : >3 8 35' 6 ' 43 .' ; 9' 7 64 ' AA' 8 232? 8 35' 4%' 2%%2 >)' 56 ' >2 A 5 ' > G > 4 2' 2' < 3?' 54' ; ' ? : 3' 56 8 .' 7 6 > B43' # 4@ ' / ? : ' 56 8' 2' < 3?' 3' 6 ' 7>256)' 54' 7 5)' 2 A' 56 ' 43' 4%' ! 6)' 2%5 >' 2 8 A' 62@' + @? @' >2 A' 57 359 43 ' 9 2> ' 2 A' ' B> : 25 A9' 234 35 @ ; 9' 2 8 A)' 23@' 2%5 >7 2>@' B ; A 1<A9' B>41A2 8 @' / 2>2' < 3?' 25' UB 6 ' ; 4 5' 2' 8 4356' 2%5 >' *2 ; 6 ' ' /F ? A 2@' ' ; ? @' ; 9' 262 6' < 3?' 4%' 56 ' 8 4> 5)' 23@' 56 ' ? ' >2 @' ; 9' 2 AK 7 6 > B43' 56 ' 7 64A ' 143?> ?25 43' 4%' >2 A)' 14 8 3?' 54? 56 >' 25' # A?2A)' 2?2 3' B>41A2 8 2 A' < 3? / L0 , ' /F 2: @' 56 ' 43' 4%' * ' 56 ' B6>256 5 ' ; 4 8 25' & 56 A 6 8 + @26' 56 >59' 9 2> ' ; %4> ' 6 ' 11 @ @' 2 A' 3' 56 ' < 3?@4 8 ' ' 7 2 ' 6 ' %256 >- ' 94 3? 5' 43 , ' // #4@' > + 15 ' 2 A)' 23@' 3@ ' 2 8 A' 54' & 56D A 6 8)' 56 > ' 5G' 234 35' 2: @' < 3?)' 7 64 8 ' 2 A : >' 2%5 >' C5> 8 A9' B > 1 5 56 , (5' *4325623)' 2 A- ' 43)' A4: 56' 6 8)' 23@' 4%5 35 8 '> 1 56' 6 8 ' %>4 8 ' 2 A- ' 1> A59 ' , 2: @' 62: 3?' 2 A' 57 1 ' 3' 6 ' B4 7 >' %4>D ; 2> ' 54' 6 >5' 6 8 , 2: @)' % 2> 3?' 6 ' 8 29' 4 8 ' 5 8 ' 4>' 456 >' %2AA' 354' 56 ' 623@ ' 4 %' 2 A)' %A ' 54' # 256' 354' < 3?' 16 6)' 12>>9 3?' 7 56' 6 8' ' 8 3. / 0M 23@' 62: 3?' 4 ;52 3 @' 4%' 6 8 ' 56 ' 54 7 3' 4%' V < A2?' 54' @ 7 AA' 3)' 6 ' 1435 3 56' 43 ' 9 2>' 23@ %4 >' 8 4356 ' 3' 56 ' A23@' 4%' 56 ' 6 A 5 3 K %>4 8 ' 7 6 31 ' 6 ' 3 :2@ 56' 56 ' 14 35> ' 4%' 56 # 6 > 5)' # > 5)' 23@' 8 2A < 5)' 23@' B 5 ' 54' 56)' 74>@' 2AA)' ; 456' 8 3' 23@' 7 4 8 3)' 345' A 2: 3?' 43 ' 2A : ' 54' 12>>9' 56 ' 3 7 ' 56 > 4% 54' < 3?' 16 6 / 00 , 16 6)' B>4B4 3?' 54' 8 2< ' 7 2>' B43' 56 >2 A 5)' 52< ' 2: @' 2A43?' 7 56' 6 8 ' 3' 5625 CB @ 5 43)' 54' 7 648)' 7 6 A 5' 6 ' ' B43' 6 ' ' / 6>43 ' 8 2>16' 7 5A ' 6 ' &&' 0 ' > B2 >' 2' ?> 25' 8 239' 456 > ' 4%' 56 ' 5> ; ' 4%' 232 6)' 23@' +4 3' 7 56' 6 8 / 28 ' 2 A)' 3?' 56 ' 2> 8 9' 4%' 56 ' 6 A 5 3)' , 3' ?> 25' % 2>)' 23@' 2 8 A' ; 3?' 34 7' @ 2@E ?4 ' 54' 3 @4>' 54' 143 A5 7 56' 2' 7 516' 56 > ' 56 ' 748 23' >2 56' 23' 2BB2> 5 43' 4%' 2 8 A) 23@' 2 A' > 1 : ' %>4 8 ' 5' 5625' @> 2@% A' @44 8 6 ' "4>@' 7 AA' @ A : >' >2 A)' 54? 56 >' 7 56' 569 A%)' 354' 56 ' 623@ ' 4 %' 56 ' 6 A 5 3 6 ' B> 31 ' 4%' 56 ' 6 A 5 3 ' ?>4 7 3?' + 2D A4 ' 4%' 2: @)' 6 ' 23@' 6 ' 14 8 B239' 2>A9' 56 3 C5' 8 4>3 3?' A 2: ' 56 ' 2> 8 9)' 23@' > 5 >3' 54' V <A2? , 6 ' 2> 8 ' +4 3' ; 255A .' 23@' 56 ' >2 A 5 ' 2> ' @ % 25 @.' 56 '56> ' 43 ' 4%' 2 A' 2> ' A2 3 23@' 6 ' 6 8 A%'%2AA ' 43' 6 ' 4 7 3' 74>@ F' 2 8 ' 6> ' @29 ' 2%5 >' 23' 8 2A < 5 ' ; > 3? ' 2 A-' 1>4 7 3)' 23@' 56 ' ;>21 A 5' 5625' 72 ' B43' 6 ' 2> 8

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& %4> F’ ! 3? ’ & 6 ;2@2@’ 3’56 ’< 3?@48 ’4%’ 9> 2.’ * 64>28 ’ ’@23? >4 A9’74 3@ @)’23@’> 5 > ’ 6 8 A%’54’ * U> A’54’; ’1 > @’ 3’56 ’8 23’5 8 ’ A 62’ 3@ 56’ 2’ 94 3?’ B>4B6 5’7 56’ 3 5> 15 43 ’54’ 234 35’ * 6 ’56 ’ 43’ 4%’* 64 62B625)’56 ’ 43’ 4%’ 8 6)’ 25’ $28456A? A 2@)’ < 3?’ 4: >’ >2 A)’ 23@’ 54’ 4B 3’ 54’ 6 8’ 56 ’ 7 AA’ 4%’ #4@’ %4>’ 56 ’ >445 3?’ 4 5’ 4%’56 ’ 64 ’ 4%’ 62;.’ 764)’; D 3?’ B>41A2 8 @’< 3?’ ;9’ 56 ’ 4A@ >)’ >32>16=’ 56’ 5>2 ?65’54’ * U> A)’ < AA 56’ * 64>28’ 3’56 ’ % A@’4%’ 2;456)’23@12 56’ * U ; A’54’; ’12 5 4 5’ 25 2’ 7 3@47)’ 76 > ’ 6 ’ ’ 25 3’;9’ @4? ’) ’ @ B2516 56’ A 55 > ’ 2A 4’ 54’ 282> 2)’ 23@’ 12 56’ : 359’4%’ 62;-’ 16 A@> 3’54’; ’ ; D 6 2@ @’ 6 3’ 52< 3?’ 7 56’ 6 8’ * 6432@2;’ 56 ’ 43’ 4%’ $ 162;)’ 6 ’148 ’ 6 8 A%’54’ 2D 82> 2)’23@’@ 5>49 ’56 ’ 764A ’ %28 A9’4%’ 62;)’ 23@’ 2 ’ 56 ’ B> 5 ’ 4%’ &22A ’ : >56 A)’ 62: 3?’ B 5’ 473’ 5 > ’ 74> 6 B’ 4%’ &22A)’ 6 ’ @ B2>5 ’ 345’ %>4 8 ’ 56 ’ 74> 6 B’ 4%’ * >4;428-’ ?4A@ 3’ 12A:)’; 5’ 82 352 3 ’ 5625’ @4A25>9’ 2AA’ 56 ’5 8 ’ 4%’6 ’> ?3)’ 76 16’ 72 ’57 359 ?65’ 9 2> ’ * 6 ’ B>41 @ ’ %2>56 >)’ 23@’ C 125 ’ 56 ’ @ : 3 ’ : 3? 231 ’ B43’ 56 ’ @4A25>4 ’ 64 ’ 4%’ * @26.’ <j’ B > ’ 62U 26’ 764’ %A @’ 54D 72>@ ’ 5)&,,*’ 23@)’ 4: >52< 3?’ 6 8’ 25’ # >)’ 12 56’ 6 8’ 54’; ’< AA @’ 3’ 6 ’ 162> 45 ’ #4D 3?’ 2A 4’ 54’ 282> 2)’ 6 ’ 8 5 56’ 7 56’ %4>59 =74’ 4%’ 62U 26-’ <3 8 3).’ 7A>8 3’ 6 ’ 12 56’ 54’; ’ A2 3 " 5A 2A 26’ 56 ’ @2 ?65 >’ B%’ 62;)’ 3?’ 6 >’ J 6>43 ’ 43’ 62U 26’ @ 2@)’ >B ’ 56 ’ < 3?@48)’ @ D ’ / 5>49 3?’ 564 ’ 5625’ 62@’ > ?65’ 54’ 56 ’ 11 D 43’.’ ; 5’ * 64 6 ;2)’ 56 ’ @2 ?65 >’ 4%’ < 3?’ * 64>28)’ 23@’ 7 % ’ 54’ * 64 2@2’ 56 ’ 6 ?6’ B> 5)’ 52< ’ * 642 6)’; 3?’ 56 3’ 23’ 3%235)’ 23@’ 43’ 54’ 6 >’;>456 >’ 62U 26)’ 23@’ 6 @ ’ 6 8’ 3’ 56 ’ 5 8 BA)’ 23@’ 4’ 2: ’ 6 8’ % 48’ 5625’ 82 21> ’ 76 16’ 72 ’ 82@ ’ 4%’ 56 ’ > 5’ 4%’ 56 ’ ;A44@’ >492A

LWL F’ ! 3? ’ ’ * 64 2@2’ 56 ’ 6 ?6’ B> 5’ ;> 3? ’ 4 5’ * 642 6)’ F’ 6>43 ’ 347’ : 3’ 9 2> ’ ; @)’ 23@’ 234 35 ’ 6 8’ < 3?.’ 12 56’ 562A 26’ 54’ ; ’ A2 3)’ 23@’ > 54> 56’ 56 ’ 74> 6 B’ 4%’ 56 ’ 5> ’ #4@)’ @ 5>49 3?’ 56 ’ 64 ’ 4%’ &22A)’ 23@’ 148 823@ 3?’ 56 ’ @4A2D 5>4 ’ B> 5’ 2552 3’ 54’ ; ’ < AA @’ ; %4> ’ 6 ’ 2A52> ’ * 642 6)’ 347’; ? 33 3?’ 6 ’ > ?3’ 3’ 56 ’ : 356’9 8 ’ 4%’* 6)’ > ?3 56’ %4>59’ 9 2> ’ 3’ * > 2A 8

$OW F’ ! 3? ’ ’ W * 642 6’ 3’ 56 ’ F @’ 9 2>’ 4%’ 6 ’ > ?3’ ? : 56’ 4>@ >’ %4>’ 56 ’ > B2>’ 4%’ 56 ’ 5 8 BA)’ 148 8 5D 5 3?’ 56 ’ 162>? ’ 56 > 4%’ 54’ * 64 2@2’ 56 ’ 6 ?6’ B> 5 ’ / * 64262U’ 11 @ 56’ 6 ’ %256 >’ * 6 ’ 3’ 56 ’ < 3?@48 ’ 4%’ >2 A)’ 23@’ > ?3 56’ : 35 3’ 9 2> .’ @ > 3?’ 2AA’ 76 16’ 5 8 ’ 2U2 A’ < 3?’ 4%’ 9> 2’ 4BB> 56’ 6 8)’ 23@’ C >1 56’ 2AA’ 564 ’ , ’ /F’ 1> A5 ’ B43’ 56 ’ >2 A 5)’ 76 16’ A 62’ 56 ’ B>4B6 5’ 62@’ %4> 54A@

LN / ’ / * 642 6’ 56 ’ 43’ 4%’ * 64262U)’ < 3?’ 4%’ >2 A)’ ’52< 3’ 354’ 56 ’ 143 4>5 6 B’ 4%’ 5625’ < 3?@48 ’ ;9’ 6 ’ %256 >’ 3’ 56 ’ FW56’ 9 2>’ 4%’ * 642 6’ < 3?’ 4%’ * @26)’ 23@’ > ?3 56’ C5 3’ 9 2>

LN F’ 6>43 ’ , V 162> 26)’ 56 ’ 43’ 4%’ * 64 2@2’ 56 ’ 6 ?6’ B> 5)’ %4>’ > B>4: 3?’ 56 ’ B 4BA ’ 4%’ * @26)’ 5625’ %2AA’ 54’ @4A25>9’ 2%5 >’ 56 ’ @ 1 2 ’ 4%’ * 64 2@2)’ ’ 543 @’ 54’ @ 256’ 3’ 56 ’ 14 >5’ 4%’ 56 ’ 64 ’ 4%’ 56 ’ " 4>@’ ;9’ 56 ’ 148 823@ 8 35’ 4%’ < 3?’ * 642 6)’ 764’ 56 ’ 3 C5’ 9 2>’ 2%5 >’ ’ 8 >@ > @’ ;9’ 48 ’ 4%’ F’ ! 3? ’ ’F ’ 6 ’ >:235)’ 2 ’ 6 ’ A29’ 3’ 6 ’ ; @.’ 23@’ 82 ’ U 26’ 6 ’ 43’ 11 @ 56’ 6 8

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LF% , 8 2U 26’ < 3?’ 4%’ * @26)’ ?>47 3?’ B>4 @’ F’ 6>43 ’ B43’ 2’ : 154>9’ 4;52 3 @’ 2?2 3 5’ 56 ’ @48 5 ’ ’ , 56 ’ /N56’ 9 2>’ 4%’ 6 ’> ?3)’ B>4: ;< 56’ * 642 6’ < 3?’ 4%’ >2 A’ 54’ ;25@ ’ * 642 6’ 4: >148 ’ 6 8)’ 23@’ 52< ’ 6 8’ B> 43 >)’ ;> 2< ’ @473’ N ’ 1 ; 5 ’ 4%’ 56 ’ 72 ’ 4%’ * > 2A 8)’ 23@)’ 62: 3?’ B4 A @’ 56 ’ 5 8 BA ’ 23@’ 56 ’ < 3?-’ A ’ 4%’ 2’ ;2 5’ 5> 2 > .’ > 5 > ’ 54’ 282> 2’

LF0 F’ ! 3? ’ , ’ F * 642 6’ @ ’ %%5 3’ 9 2> ’ ; %4> ’ 8 2U 26)’ 23@’ * >4;428’ 56 ’ 143@’ 6 ’ 43’ > ?3 56’ 3’ 28 2> 2’ %4>59 43 ’ 9 2>

L / ’ , 8 2U 26)’ % 3@ 3?’ 2’ 143 B >219’ 2?2 3 5)’ 6 8’ F’ 6>43 ’ * > 2A 8)’ %A ’ 54’ "216 6)’ 76 > ’ 6 ’ ’ , 8 >@ > @’ 2%5 >’ 7648’ 148 ’ 6 ’ 43’ UU 26 ’ F’ ! 3? ’ 4>’ U2> +@)’ 3’ 56 ’ FW56’ 9 2>’ 4%’ * >4;428’ , 56 ’ 143@)’ 23@’ > ?3 56’ % %59 574’ 9 2> ’ 3’ ’ > 2A 8

L L 47’ ’ 6 A@’ 56 ’ 5A ’ * ; A ’ 3@ >’ 56 ’ 574’ 4 5’ %4 > 6 3?’ < 3? .’ 3’ 764 ’ 5 8 ’ A : ’ 3@>9’ ?> 25’ B>4B6 5 ’ 3’ ;456’ < 3?@48 .’ 2 26’ 23@’ *4 A’ 3’ * @26.’ *432)’ 4 2)’ 23@’ 84)’ 3’ >2 A

F’ ! 3? ’ , ’ F0 *432 ’ 4%’ #256>6 B6 >)’ 2’ 5473’ ; A43? 3?’ 54’ 56 ’ 5> ; ’ 4%’ V ; A43’ 3’ #2A A ’ 4%’ 56 ’ # 3D 5 A)’ 4; >: ’ 6 > ’ 56 ’ ; A 3@3 ’ 4%’ 56 ’ 62> D)’ * Ø: ’ 0F)Ë’ 72 ’ 2%5 >72>@ ’ 35’ 354’ 2 26’ ’ / 3 :)’ 56 ’ 8 5>4B4A ’ 4%’ 9> 2)’ 76 > ’ ;456’ *4326’ ’ < 3?’ 23@’ B 4BA ’ 25’ 6 ’ B> 216 3? > B 35 @ 2556 7’ ’ N/ Þ* >4;428’ < 3?’ 4%’ >2 A’ 43@ >’ 7648’ 5625’ < 3?@48 ’ 128 ’ 54’ 5 ’ % AA’ 6 ?65’ 4%’ ?A4>9Ë’ WLN F’ ! 3? ’ , ’ FJ @ 56’.’ 2%5 >’ 6 ’ @ 256’ 2AA’ 56 3? ’ %2AA’ 354’ 143D % 43)’ 23@’ 56 ’ 525 ’ ’ > @ 1 @’ 54’ 2’ BA2 3’ 232>169)’ 76 16’ A2 5 56’ A : 3’ 9 2> ’ 23@’ 23’ 62A%.’ %4>’ 16’ 23’ 35 >> ?3 8’ 4>’ :212319)’ 56 ’ 9316>43 8’ 4%’ ! 3? ’ > G >)’ 5625’ 56 ’ C’ 84356 ’ 4%’ V2162> 26’ 56 ’ 43’ 4%’ * >4;428’ 829’ 23 7 >’ 56 ’ 5A >59 ?65’ 9 2> ’ 23@’ 43 ’ 84356’ 4%’ 62AA 8)’ 764’ 8 >@ > @’ 6 8’ 3’ 56 ’ J56’ 9 2>’ 4%’ U2> 26)’ 4>’ UU 2A)’ < 3?’ 4%’ - @26

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F’ ! 3? ’ , ’ /N) 326 8’ 56 ’ 43’ 4%’ #2@)’ ?4 3?’ %>48’ > ’ U26’ 54’ 282> 2)’ < AA 56’ A 2AA 8)’ 72 5 56’ B6 26’ 23@’ 56 ’ ;4>@ > ’ 56 > 4%.’ 23@’ ; 12 ’ 56 ’ 5473’ 74 A@’ 345’ 4B 3’ 54’ 6 8)’ 6 ’ 52< ’ 5)’ 23@’ > B ’ B’ 2AA’ 56 ’ 748 3’ 7 56’ 16 A@

WW* /J) 6 A ’ 326 8’ 3’ 56 ’ ;>4 A ’ A2;4 > ’ 54’ ? 5’ 56 ’ B4 43’ 4%’ 56 ’ < 3?@48 ’ A’ < 3?’ 4%’ 9> 2’ ÷3:2@ 56’ 6 ’ 14 35>9)’ 54’ 7648’ D 326 8’ ? : 56’ / ’ 52A 35 ’ 4%’ A: >)’ 23@ 2%5 >D 72>@ ’ > ?3 56’ G 5A9’ 5 3’ 9 2>

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3' 2' >64 5' 148B2 4325 ' 8233 >' 6 ' B4 35)'
"28 ' , ' F 2 ' 5' 7 > ' 7 56' 6 ' % 3? >)' 25' 56 ' @ 256' 4%' *4 '
26)' 2 ' 56 ' 4 >1 ' 23@' 4> ? 32A' 4%' 2AA' 564 ' 3D
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F' ! 3? ' %5 >' 56 ' @ 256' 4%' *4 26' 56 ' B 4BA ' 234 35'
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F' 6>43 ' < 3? ' %5 >' 56> ' 84356 ' > ?3' 6 ' ' @ D
, B4 @' ; 9' 62>246 3 164)' 764' 82< ' A 2 '
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* > 2A 8)' 23@' 1623? ' 6 ' 328 ' 354' * '
64 2< 8 .' ; 5' * 64262^' 6 ' 12>> ' 2A43?' 7 56'
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0 * 64 2< 8 ' 25' 57 359 % : ' 9 2> ' 4%' 2? ' ; ? 3 '
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21G 55 @)' 23@' 5' 25' A ; >59 ' ;4 5' 56 ' 5 8 '
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, ' / 6 ' 9 2>' ' ; 162@3 UU2>' 56 ' #> 25'
82@ ' ; 9' 6 ' %256 >' 2 ; 4B4A2UU2>' 6 ' 2 Q1 25 '
3' 56 ' < 3?@4 8 ' 4%' 9> 2' 23@' &2 ; 9A43 .' 354'
6P6 F' 6>43 764 ' 623@ ' # 4@' @ A : > ' B' * 64 2< 8)' 764'
, ' M ' B 5' 3' 162 3 ' 54' ; ' 12>> @' 54' &2 ; 9A43' .'
; 5' B43' 6 ' ; 8 43' 23@' B>48 ' 4%'
4 ; @ 31 ' ' A %5' 3' 6 ' 473' 64)' 76 > '
6 ' A : ' 2' >:235' 54' ; 162@3 UU2>' 56> '
* > 8 ' 9 2> ' '>48 ' 76 16' 35 > 3?' 4%' 56 ' < 3?' 23@'
, ' / / ' B 4BA ' 4%' @ ' * 7 ' 354' 56 ' ;+ 15 43' 23@'
' / >: 1 ' 4%' ; 162@3 UU2>' 2> ' 56 ' : 359'
9 2> ' 4%' 56 ' 12B5 : 59' 4%' &2 ; 9A43' 54' ; ' > 1<D
43 @)' 76 16' 7 > ' %4> 54A@' ; 9' 56 ' B>4B6 5'
* > 8 9
23 ' ')' W ; 162@3 UU2>' ? : ' 4>@ >' 54' 6B 32U)'
82 5 >' 4%' 56 ' 3 16)' 5625' 6 ' 62AA' 12>>9'
%>48 ' 56 31 ' 4%' 56 ' 16 A@> 3' 4%' >2 A)' ; 456' 4%'
56 ' ; A44@' >492A' 2 ' 72 ' %4> 54A@' ; 9' 56 ' B>4D
2 26 B6 5' 29' 54' U < 26E' 23@' 2A 4' 4%' 56 ' 34D
' ; A 59)' 56 ' 164 1 5' 94 53 ' ; 456' %4>' ; 2 59' 23@'
7 5' 5625' 6 ' 123' % 3@ .' 764)' ; 3?' @ 125 @'
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56 ' 62A@ 23)' 8 29' 2%5 >72>@ ' ; ' % 5' 54' >: '
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3 ?4K 56 >' 328 ' ; 3?' 56 ' 1623? @' ; 9' 56 '
82 5 >' 4%' 56 ' 3 16 '
E 6 A 5' ; 162@3 UU2>' B > ' 6 ' : 154D
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*%, % %4>' 56 ' ; > 3? 3?' 2729' 4%' 56 ' 12B5 :)'
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729' 54' &2 ; 9A43)' 76 > ' 6 ' ' > 1 : @' 2 ' 56 '
A27% A' 11 4>' 54' 6 ' %256 >- ' @48 3 43 '
23 ' ' F ' 12 56' 54' ; ' ; >4 ?65' 54' &2 ; 9A43' 7625' 6 '
' 6>43 ' 56 3< ' % 5' 4%' 56 ' : A ' 23@' % >3 5 > ' 4%' 56 '
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> ; A ' 2?2 3 5' 6 8
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3 UU2>- ' > ?3)' 52< 3?' 5' 2 ' 5' ; ? 3' 25' 6 ' %2D
56 >- ' @ 256)E' 23 A' > 14 : > ' ; 162@3 UD
U2>- ' @> 28)' 23@' 35 >B> 5 ' 5' 54' ; 54< 3' 56 '
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E F' ! 3? ' ; 162@3 UU2>' 3@ ' 23' 2> 89)' 143 5D
, ' F ' 3?' 4%' 62A@ 23)' 9> 23)' 42 ; 5)' 23@' 8
* > 8 ' 8435)' 2?2 3 5' * 64 2< 8 .' 56 ' 72 5 ' 56 '
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' ! 3? ')3@ NML' 9 2> ' 2%5 >' 2 : @' ; ?23' 54' > ?3' 4 : >'
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; +' 23@' / N 9 2> ' 2%5 >' 56 ' @ 5> 15 43' 4%'
A ' < 3?@4 8 ' 4%' >2 A
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3' 56 ' 143@' 9 2>' 2%5 >' 56 >' > 5 >3' %>48' &2;9A43)' 3' 56 ' 143@' 84356)' 56 9' 2BB4 35' " : 5 ' 54' 4: > ' 56 ' 74><' 4%' 56 ' 64 ' 4%' #4@)' 23@' A29' 56 ' %4 3@25 43' 4%' 56 ' 5 8 BA .' 56 ' 4A@' 8 3' A28 35 3?)' 7 4' %%59 56> ' 9 2> ' ; %4> ' 62@' 3' 56 ' 4A@' 5 8 BA ' 523@ 3?)' 23@' 56 ' 94 3? >' 4>5' > +4 1 3?' 54' ' 56 ' 3 ' 43 ' ?4 3?' B

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3' 56 ' C56' 9 2>' 4%' 2>)' 4>' 62 >)' 56 ' 5 8 BA ' ' % 3 6 @.' 56 ' @ @ 125 43' 76 > 4%' ' 1 A ;>25 @' 7 56' ?> 25' +49' 23@' 2; 3@231 ' 4%' 21> %1)' 56 ' > 5 ' 23@' " : 5)' : >9' 43 ' 3' 6 ' BA21)' 255 3@ 3?' 43' 56 ' 8 3 5>9' 4%' 56 ' 5 8 BA ' 6 ' B2 4: >' 2A 4' ' 1 A ;>25 @

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5 ' , ' /J
76 16' 72 ' : >' 2: > ' 54' 6 E' 23@' 54' >445' 5' 4 5.' %4>' 56 ' C 1 5 3?' 4%' 76 16' B >B4 ' 5625' 6 ' 8 29' % 3@' 2' 11 % A' 5 8)' 6 ' 12 56' >)' 5625')' 56 ' "45)' 54' ; ' 12 5' ; %4> ' 6 8)' %4>' 54' <347' 56 ' @29' 23@' 84356' 76 > 3' 56 ' * 7 ' 62AA' ; ' @ 5>49 @)' 23@' 56 ' A45' %2AA ' 43' 56 ' 57 A%56' 84356' @2>

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56 >' , 8 3 43 ' > B43' 4>@ 12)' 56 >)' 23@' 2AA' 56 ' * 7)' 6 8 ;A ' 56 8 A: ' ; %4> ' 56 ' "4>@' ; 9' %2 5 3?' 23@' B>29 >

, 62 > ' 6 2> 3?' 5' > 2@' 3' 56 ' 16>43 1A)' 5625' 2' 143 B >219' 62@' ; 3' @ 14: > @' 54' 6 8' ;9' 4>@ 12)' 148 823@ 56' 5625' 6 ' ; ' B ; ' A 1<A9' 6434 > @)' 23@' 5625' ;9' 2823' 6 8 A%)' 6 ' @ 2@A9' 3 89

, 56 >)' 35 >583 3?' 56 ' < 3?' 23@' 2823' 25' 2' ;23G 5)' 82< 56' 5' %4>' 6 >' 473' A %)' 23@' 6 >' B 4BA -)' 23@' 211 56' 2823 ' 6 ' < 3?)' 3@ > 523@ 3?' 5625' 2 323' 62@' B>4: @ @' 2' ?@

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56 >' ' U>2' , .
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3' 56 ' F 56' 9 2>' 4%' < 3?' >52C >C)' 6 ' 8 2A' 2' * 7)' 43 ' 4%' 6 ' 1 B; 2> >)' ; 3?' 82@ ' ?4: >34>' 4%' * @ 2)' 4;52 3 ' A 2: ' 54' ; A@' 56 ' 72AA '.4%' * > 2A 8)' 23@' % 3 6' 5625' ?> 25' 74> ' 23 ' > ' ; ? 3' 23 A- ' : 359' 7 < ' 54' ; ' % AD FN % AA @' ; %4> ' 56 ' B2 43' 4%' 4 >' 2: 4 >

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6 8 26)' 62: 3?' ?4: >3 @' * @ 2' -&% ' ' 9 2>)' > 5 >3 ' 54' 56 ' < 3?' 4%' > 2

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6 ' 9 2>' ' 56 ' F/ 5' * ; A)' 56 ' A2 5' 5625' : >' 56 ' B>4B6 5 ' 4%' 56 ' A@' 528 35' 27' .' %4>' 5625' BA21 ' 3' 6 8 26)' 162B)' C)' FF)' '+' 345' 54' ; ' 3@ > 544@' 4%' 56 ' A2 5' 2>)' ; 5' 4%' 2> ' 45%2)' 764' 347' > ?3 ' 3' > 2.' 56 ' % AA' 6 54>9' 4%' 6 8 26' 3@ 3?' 7 56' 56 ' 5 8 ' 4%' >52C >C ' "43? 8258)' %256 >' %' 56 ' 2> ' 456

56 >54' 2 56' ; ' 3' 6 ' 6>43 1A)' 54' 56 ' F@' 9 2>' 4%' >52C >C E' 56 ' : 3 ' 1> BD 5 > ' 4%' 56 ' ;> 7 ' 14352 3' 56 ' 2332A ' 4%' 56 ' 5 8 ' & 5' 564 ' 56 3? ' 76 16' 7 > ' @43 ' 2843?' 56 8' 2%5 >72>@ ' 7 ' 8 5' @ A : >' 4 5' 4%' 56 ' ;44< ' 4%' 56 ' 2112;)' 23@' 4 5' 4%' 56 ' 7 > 5 3? ' 4%' *4 B6)' 764' 62: ' @ A : > @' 2' ? 3 >2A' 6 54>9' 4%' 56 ' * 7 6' 2%%2 > ' %>48' 56 31 ' @473' 54' 56 ' 5 8 ' 4%' 56 ' $4823

625' 2A2>)' 56 ' A2 5' 56 ' B>4B6 5)' 72 ' 1435 8B4>2>9' 7 56' 6 8 26)' 2BB 2> ' %>48' 6 31 ' 625' 6 ' 34' 76 > ' C64>5 ' 56 ' B 4D BA ' 54' 56 ' ; A@ 3?' 4%' 56 ' 5 8 BA)' 2 ' 2??2 ' 23@' V2162>9' @ @.' ; 5)' 56 ' 5 8 BA ' ; 3?' 347' ; A5)' 6 ' > B>4: ' 564 ' @ 4>@ >)' 76 16' '

, A >2 26 25' 6 ' 143@' > 5 >3' 7 56' 2' 3 7' 148 D 8 43' %>48' &2;9A43' 2 56' 6 ' %4 3@' 3' 6 ' 2; 31 54' 62: ' 1> B5' 3' 2843?' 56 ' * 7 .' 2 ' 82>> 2? ' 7 56' 5>23? ' 748 3)' 7 5664A@ 3?' 4%' 556)' 23@' 2; ' 3' 56 ' 74> 6 B' 4%' #4@ '

2A216 ' 3@' ; 12 ' 2' 11 43' 4%' B>4B6 5 ' 72 ' 345' , ' N' 54' ; ' CB 15 @)' 2 ' ; %4>)' 6 ' C64>5 56' 56 ' " < ' / ' B 4BA ' 143 5235A9' 54' 2@6 > ' 54' 56 ' A27' 4%' 4D 2556 ')' 5 AA' 6> 5' 56 ' 16 %' >4B6 5' 64 A@' 2BD ' /N' B 2>.' 764 ' %4> > 33 >' *463' 56 ' &2B5 5' , ' /F 64 A@' 148 ' 3' 56 ' B > 5' 23@' B47 >' 4%' A 2)' 54' 5 >3' 56 ' 6 2>5 ' 4%' 56 ' %256 > ' 354' 56 >' 16 A@> 3)' 23@' 56 ' @ 4; @ 35' 54' 56 ' 7 @48' 4%' 56 '+ 5' ' /' 21 ' : ' NM)' 23@' C ' FW

H>+ *4 ' 35 ' /' //' 1' L
' " $' 56 ' #> 25)' < 3?' 4%' 21 ' +' @43 2)' B2 56' 4 5' 4 %' A >4B ' 354' 2)' 23@' ; ? 3 ' 54' A29' 72 5 ' 56 ' > 23' 8B > 232)' ;>456 >' 54' *2@@ ' 56 ' 6 ?6' B> 5)' > % 3?' 54' B 527 29' 6 ' 5>23? ' 7 %)' ' @> : 3' %>48' 56 ' 21> %1 K' 232;2AA256' 6 ' %256 >' 3' A27)' ?4: >34>' 4%' 282> 2)' > :4A5 56' %>48' 2D >)' 4;52 3 ' A 2: ' 4%' A C23@ >' 54' ; A@' 2' 5 8 BA ' 43' 84 35' # > U 8)' 23@' 82< ' 2D 32 ' 6 ?6' B> 5' 56 > 4%K 54' 76 16' > 4>5' 2AA' 16' 2 ' 2> ' 3523?A @' 3' 3A2 7% A' 8 2>> 2?)' 7 56' 2AA' 16' 4%% 3@ ' 2 ' 56 3<' 56 8 A: ' 345' 2% ' 25' * > 2A 8 ' 6 ' 72 ' 56 ' > ' 4%' 5625' 16 >225 12A' 143: 35 1A ' 4%' 56 ' 282> 523 ' ' *30' : ' F

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$44@)ſ >ſ 1>)ſ 7 6 16ſ 14352 3ſ <347 3ſ 3 8 ; > ' 4%ſ G 2> ' ' 5ſ ' >16ſ 14352 3 ' FWFſ G 2> ' ' 5ſ 23@ſ _ ' '$ 4@ſ '>Kſ54ſ /)LJ ſ G 2> ' ' 5ſ 3ſ 1> ' ' r '54ſ N)0M ' G 2> ' ' 5ſ 5ſ ' BA2 3ſ 5625ſ 56 ' 3 8 ; >ſ AM)M NVLLſ 6256ſ 345ſ 35 ? > ' G 2Aſ 54ſ 564 ' 4%ſ 23ſ 1> '.' ; 5ſ 5ſ 6256ſ 34 ?6ſ 54ſ 23 7 >ſ 564 ' 3ſ 2ſ $44@)ſ 23@ſ 48 ' 4 : >BA .' 56 > %4> ' ' 8 5ſ @ : @ ' /M)M NVLL' ; 9ſ /)LJ)ſ 7 6 16ſ ' 2ſ $44@ſ ' &9ſ 16ſ @ : 43ſ 1435 3 @ſ 3ſ 56 ' 1 8 2Aſ 729)ſ 35Aſ ' 62: ' 2ſ %>215 43ſ 4%ſ % : ' 4>ſ C' BA21)ſ 7 6 16ſ ' C215ſ 34 ?6)ſ ' % 3@ſ 56 ' G 45 ' 54ſ ; ' / V ' 0FW)0 W)ſ 7 6 16ſ 2 > ' 8 ' 5625ſ >29ſ 3 8D ; >ſ AM)M NVLYſ 6256ſ ; 5ſ 431 ' 35 > A9ſ 3ſ 5ſ 2ſ 764A ' $44@.' ; 5ſ 5ſ 6256ſ 84> 4: >ſ 3ſ 5ſ 8239ſ 1 8 2Aſ B2>5 ' 4%ſ 2ſ $44@ſ ' 6 ' 56 > %1$ ' ' > @ 1 ' 54ſ 56 ' >16 ' 14352 3 @ſ 3ſ 56 8)ſ ; 9ſ 8 A5 BA9D 3?ſ 56 8ſ 354ſ N)ſ 7 6 16ſ ' 56 ' %5 8 ; >ſ 4%ſ >16 ' 5625ſ 82< ' Bſ 2ſ $44@Kſ 23@ſ 1 55 3?ſ 4%%ſ Cſ BA21 ' %>48 ' 56 ' B>4@ 15)ſ 7 6 16ſ ' F / V / /)NL .' 4ſ ' % 3@ſ 56 > ' 2> ' =/' >16 ' 35 >)ſ 23@ſ 56 ' %? > ' 2%5 >ſ 56 ' B2>25> Cſ 2> ' 1 8 2A ' 4%ſ 2ſ >16 ' 6 ' 2A 4ſ ' 8 A5 BA9ſ ; 9ſ FWFVF0)ſ 7 6 16ſ 2> ' 56 ' G 2> ' ' 5ſ 23@ſ 1 8 2A ' 4%ſ 2ſ >16 ' 6 ' B>4@ 15ſ 4%ſ 56 ' A2 5ſ 8 A5 BA 125 43)ſ 2%5 >ſ ?65ſ BA21 ' 1 5ſ 4%%ſ %>4 8 ' $ ' ; 9ſ 56 ' B2>25> C)ſ ; 12 ' 56 > ' 7 > ' Cſ BA21 ' 4%ſ 1 8 2A ' 3ſ 43 ' 4%ſ 56 ' 8 A5 BA >)ſ 23@ſ 574ſ 3ſ 56 ' 456=)ſ ' FWſV ')) ' 31 ' ' A 2>3ſ 5625ſ 56 > ' 2> ' 56 > 3ſ ; 5ſ FW 35 > ' ' 5.' 2AAſ 56 ' ?65ſ 1 8 2Aſ BA21 ' 2 8 4 35ſ 54ſ A 55A ' 2 ; 4 : ' 62A%ſ 2ſ ' 445)ſ 23@ſ 56 > %4> ' ' 12 5ſ 56 8ſ 27 29ſ 2 ' 3143 @ >2 ; A ' 3ſ 56 ' 8 2 > ' Z%%A23@ ' 6 ' 8 564@ſ 4%ſ > @ 15 43ſ ; 9ſ 8 A5 BA 125 43ſ 4%ſ 1 8 2A ' ' % 3@ſ 54ſ ; ' 2 >ſ 5A 23ſ 56 ' 14 8 8 43ſ 7 29ſ 4%ſ > @ 1D 5 43ſ ; 9ſ @ : 43)ſ 23@ſ 56 > %4> ' ' B>4B4 ' 5ſ 54ſ ; ' @ ; 9ſ ; ? 3D 3 > ' 3ſ 56 ' B>215 1 ' 4%ſ >: 9 3?ſ ' 4ſ ' % 3@ſ 56 ' 4 >5ſ 54ſ 14352 3ſ 3ſ 0)(& 3ſ 8 2 > ' / $44@)ſ F/' >16)ſ FW ' 5)ſ 23@ſ A 55A ' 8 4>)ſ 5623ſ 62A%ſ 2ſ ' 445ſ G 2> @ſ ' & 5ſ > %A 15 3?ſ B43ſ 5* T ' 8 2 > ' ; 9ſ ; 5)ſ 23@ſ % 3@ 3?ſ 56 8ſ 54ſ ; ' B> @ A9ſ 0 ' G 2> ' ; 5)ſ ' 4 ; >: @ſ 5625ſ 56 9ſ 7 > '+ 5ſ 62A%ſ /))ſ 7 6 16ſ ' 62@ſ 4 ; >: @ſ %>48 ' ! %*,ſ $, ſ $ %- ' 54ſ ; ' 56 ' > 2ſ 4%ſ 5A ')/- & 0ſ %*$% ' 4 /' 7 6 16ſ 56 >ſ A23@ſ 72 ' 2 ' ? 3 >2AA9ſ 8 2 > @)ſ 2 ' 43>- ' ' ; 9ſ 1> ' 23@ſ $44@ ' ' ! %*,ſ(ſ /' Fſ 1Tſ ! "ſ ' 12AA @ſ 2A 4ſ 54ſ 8 3@ſ 2ſ B2 2? ' 3ſ 5 0 3*ſ 23ſ)/- & 0ſ > 5)ſ 1 5 @ ; 9ſ * -3$ ' 3 ' 6 ' %> 5ſ ; 44<ſ 2?2 3 5ſ -&*0 ' 7 6 > ' 6 ' 2%% >8)ſ 5625ſ 5 0 3* 3ſ 6 ' 6 54>9ſ 4%ſ 56 ' > ?>)ſ 72>)ſ 23@ſ CB A 43)ſ 4%ſ 56 ' 2 54>)ſ 7 64 8 ' %&. 0$ ' 2%% >8 ' 54ſ ; ' 3. 0&.& 0 ' *%ſ 0 0&& ' 23@ſ * -3$ ' :2 3A9ſ ; A : @ſ 54ſ ; ' 6 R 7>45 ' 4 5ſ 4%ſ 56 ' B ; A 1<ſ > 14>@ ' 4%ſ 1)/- ' 5625ſ 56 ' 2 54> ' 8 2@ ' 25ſ 4 %& ' 2ſ : >9ſ A2>? ' 23@ſ 5>43?ſ 3128B8 35)ſ5625ſ 3148B2 @ſ /) ' *>42> >) %% 1 35ſ 54ſ 14352 3ſ FN) ' 8 3)ſ 23@ſ A43?ſ 54ſ 82 352 3ſ 56 >ſ 1255A ' 31 ' 5ſ 2BB 2>)ſ 5625ſ 345ſ 43A9ſ 56 ')/- & 0 ' ; 5ſ 56 ' 3* 0&.& 0 ' 4>ſ 0 0& ' 2A 4)ſ 5625ſ 62@ſ @ 7 A5ſ 2 8 43?ſ 56 8)ſ 23@ſ 62@ſ > ?3 @ſ 56 > ' @ > 3?ſ 56 ' 5 8 ' 4%ſ Cſ < 3? ' 11 : A9)ſ @ſ 56 ' 8 2 > ' 4%ſ A23@ſ 12AA @ſ %*$% +ſ 4 7 ' 56 ' 72 ' A43?ſ ; %4> ' 5* Tſ ' 5 8 .' %4>ſ 56 ' ; ? 3 3 3?ſ 4%ſ * & ' 4>ſ 3 * & ' 7 64ſ CB AA @ſ 5A 8ſ 4 5 4%ſ)/- ' 72 ' : >9ſ 3 2>ſ 56 ' 5 8 ' 4%ſ 4% 3 Tſ ' @ 25A)ſ 2 ' 2BB 2> ' ; 9ſ 56 ' 332A ' 4%ſ 56 ' A 2>3 @ſ > 8 25 ' 4%ſ % (0,+ 6 > %4> ' ' ; A : ' 5A 25ſ 5* ' 764ſ 72 ' < AA @ſ 3ſ 2AAſ)/- & 0ſ A 2>3 3?)ſ B 1 2AA9ſ >: 9 3?)ſ @ @ſ 4%ſ 164 1 ' 8 2< ' 56 ' 4 >5ſ 4%ſ 56 ' 2 ; >D 321A ' 54ſ ; ' + 5ſ A 2Aſ 23ſ %*$% ' 7 6 16ſ 72 ' 2ſ <347 3ſ 8 2 > ' 54ſ 6 8ſ 23@ſ 6 ' B 4BA)ſ 7 64ſ 62@ſ A43?ſ @ 7 A5ſ 3ſ)/- ' 23@ſ : 3 ' 564> 59ſ @ > 15 @ſ 6 8ſ 4ſ 54ſ @4

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1> ; @ 3 23 A) 162B :)

6 %4> ?4 3?" 5 14352 3 56 328 4% 56 B> 31 B2A 564>) 764 74>< 62: ; 3 84 5 > ? A2>A9 G 45 @ 0 3 345 56 > 411 > 456 > 328) 4% 3?A 6 23@ 4> ?3 @ : 3) 5>2: AA > 3 56 2 5) 23@ 7 > 5 > 4% :2> 4 @ 1> B5 43) 764 74>< 62: ; 3 41D 12 432AA9 143 A5 @ 56 23 2114 35)4% 564 4112 432A 1435> ; 54> 5 62 ; 3 + @? @ 33 1 2>9 54 7 AA 56 1252A4? K 5 8 29 647 : > ; 25 %2154>9 54 56 > 2@ > 54 ; 3%4>8 @ 7 56 > B 15 54 56 8) 5625 56 345) @ ?325 @ ; 9 56 328 4%) &2@7 AA) 2 52A 4 2BB AA) :4 C) >) @72>@) #>45) 4 ; ?235) * 3 " A >1) 2) 162 6) 3 5 >) $4 38 AA >) 16 A5 3 AA 5) 2> 52< 3 56 > %>48 56 > 51 21>) 4> %>48 44A - 934B) 4> %>48 48 35 > 4> B2>5 2A 148 8 352>9 43 56 4A9 1> B5 > ; 9 56 > B 15 : 2334525 8 K 5625 8 239 4% 56 AA 5>25 43 %>48 > *463 62>@ 3) > 623@A >) 2 AG 5) 6 : 345 23@ 456 > 5>2: AA > > A25 3?54 56 8233 > 1A 8 25) 23@ 456 > B 1 A 2> 5 4% 56 2 5) 8 29 ; %4 3@ 3 2>>2 >- ; >:25 43) & > @ >- > 352A 548) 23@ 56 >2?8 35 2BB 3@ @ 54 263 5- 15 432>9K 5625 56 > 82>< 35>4@ 1 @ %>48 @@ 43) > *463 43 5 A) 23@ > *4 2>543) 2> 3 ? 3 >2A A 15 @ %>48 56 B 15254>) $28 ; A >) 23@ 456 > 5 8 @ B > 4@ 12A 74>< 23@ 5625 564 76 1A > 82 3 28 2BB>4B> 25 @ 2%5 > 56 3 8 >25 43) 2> % >3 6 @ 56 > ; 9 48 " C 143 4% 1> @ 5) 2 3 56 12 4% 16A 3 >- # > " C 143 4> ; 9 48 >8 43) B >62B 43 56 B2>5 1 A2> B2 2? > 82>< @ 43) 2 3 56 12 4% > 4 5A 56 72 5 43 2 26) 162B : / T /M) 23@ 4% > : A ?6 43 V 162> 26) 162B \ T / /. 4> ; 9 48 456 > 74>< 4% 256 4A4? 12A 4> 456 > 162>215 >) 2 > * 3< 3 43 56Z $ 2 432 ; A 3 23@ >52 359 4% 56 6> 5 23 $ A ? 43) 23@ > $4 ; >5 43 43 231 35 3@ 2 . 56 2 564> 4% 76 16 62: 345 ; 3 B D 1 % @ 3 56 1252A4?) 43 2114 35 4%56 >2> 411 >> 31 4%56 > 328 3 56 148 8 352>9

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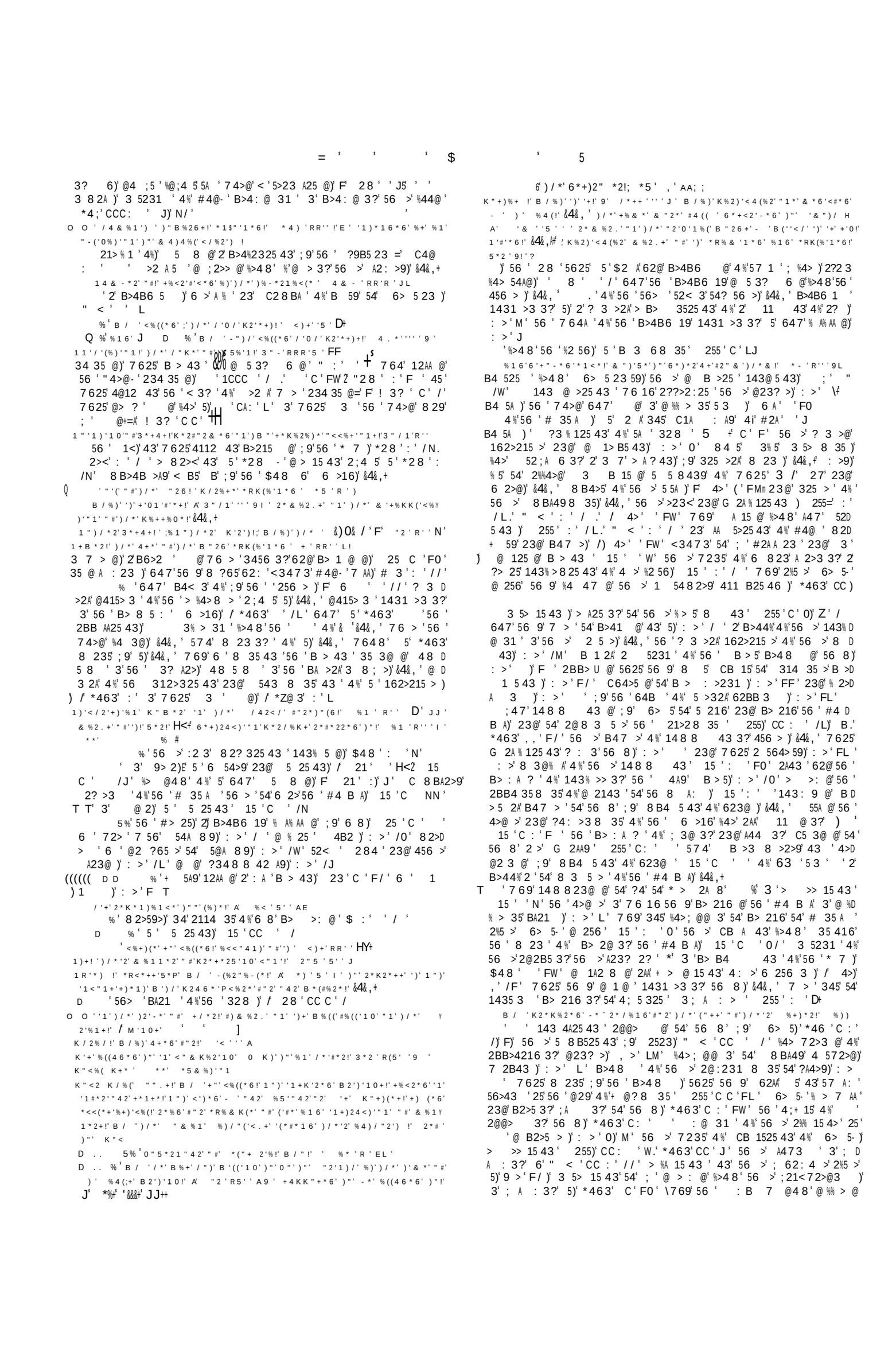

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'106" & ' 4%)' B / %)' '1)*16*6!' 3*2!' (' FW' [[' ' = + 6' /'+') / 2*+ / '10 K(%<*!' B / *2*' +')4%)*!' 9' %& ' RR'5 ' AE > 82><' 43' 56 ' B> 1 ' 4%' 5)' : >' FN ' >16 >)' 3' ;> 7)' [B > 43 ' 764' 5> 2@' 56 ' ;47)-' CBA2 3 @)' / 6> 3' : ' N ' ! + # ' 3@ >' 7625' 1 >1 8 5231 ' 6 '[> ?3 @' 3' * @ 2)' 255 ' ' FF ' ! # ' 764' 6 ' 72)' 6 A 8 ' ' H7 69' 12AA @' ;9' 5' 2 A' '% %1' A47' 4A@ >)' &4&,' 143+ 15 > ' 1431 >3 3?' 56 ' B >B4>5' 4%' 56 ' 12 D 5 43' 54' 6 8 ' 4A' : ' ' > 4B2?)' 7625' 56 ' 8 23 3?' 4%' 56 ' 74>@ ' 15 ' C : ' ? - = @A9' 56 ' 6 ?6 5' 14 >5' 4%' + @ 125 > ' 25' 56 3 ' 4' 12AA @) ? 7 69' 5' 2 A' 72 ' ;>4 ?65' ; %4> ' 5)' &4&,' 7625' 5 ' 8 8 ; > ' 7 > ' @ 5 3? 6 @' %4>)' : >' N' =' > ' - ! 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&25)' 8 23 3?' 4%' 56 ' ; > 7 ' 23@' #> <' 328 ' " : ' C '
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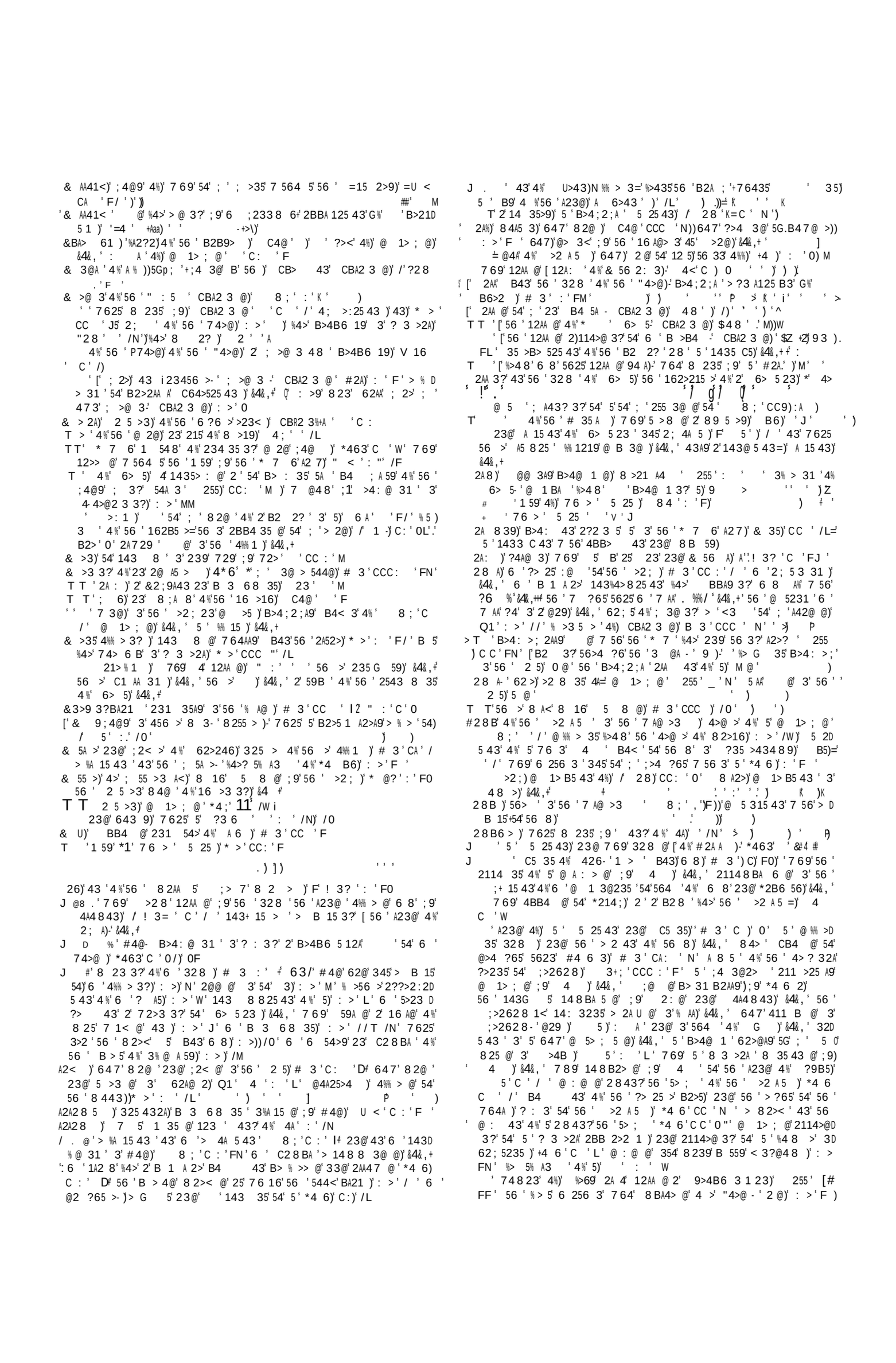
2>? 8 35 ' %4>' BB4 3?' 5625' 6 ' @ @' 4)' &4&, ' B>4 ; 2 ; A9' 2AA @ @'
' 54)' ' 4>' '
' # 4@- ' B>4 : @ 31 ' C5 3@ ' 5 ' 12> ' 54)' 23@' 823< 3@' 2> ' 21D
14 352 ; A ' 54>' 56 >' AA' ' 4%' 56 8)' *4326' : ' / /
647 ' 5625' 2 @' 54' ; %2AA' 823' 7 6 16' ; %2AA ' 56 8)' 11A ' 6
=J ' ' ' ' i
' ' : A)' 56 >' 31> 2 ' 3' 23' 2 ; 23@43 @' 14 35>9)' B>4 ; 2 ; A9' 2AD
A @ @' 54)' U < ' , '
T ' %4 >)' >4 3@' 5A ' 56>43 ' 4%' # 4@)' 7 69' 5' 64 A@' >256 >' ; '
[' %4 >' A : 3?' 1> 25 >)-' $: ' : ' ' 7625' 56 9' 8 23)' &4&,- ' 56 >'
43?' 4%' ; A 8 ' 2@4>25 43' 54' 56 ' ; A @' > 3 59)' : > ' ' 7625'
56 >' 7 3? ' @ 345)' &4&,- ' 56 >' 2@4>25 43' 23' C2 8 BA ' 54' 56 '
6 >16' 8 A 5235)' &4&,+
& 2 5 % A ?25)' 7 69' 4' 12AA @ ' 15 ' '
& 2 59)' 7 69' 2' 5 >8 ' %4>' 4>328 35' 4%' 56 ' 6 2@)')' C '
[' 4%' 56 ' " 4>@)' 7625' 5' 8 23) ' CC : ' N
T T' 52%% 4%)' CBA2 3 @)' V 16 ' C ' W)' ')
& @)' ['148 3?' @473' _>48 ' 2' ; @-' AA 5>25 @' ; 9' 44> 6' 1 548
' ! 3? ' ' N ' B>4 ; 2 ; A '-8 23 3?' 4%' 56 ' B6>2 '%' 8 9' 6 A > ' 2%A '
) 7 56' 8 ' 3' ; @)-. " < C " ' W ' 7 AA' >2 5' 6 >' 4 8 ' 2' ; @ :' C)'
BA2 3 @ ' $: ' ' FF ,' K ' ' P) ' ' Z ' 5'
& @)' 7625' 4' 12AA @)' U < ' CC)' FO ' =-
& @)' 3' 7625' B2>5' 4%' 5 A ' 1628 ; >' 5 25 @)' # 3 ' CA ' N ' 564 ' 8 '
' 2 8 43?' 56 ' ; > 7)' F' ! 3? ' : ' / ' 647 ' BA21 @)' F' ! 3? '
' F ' 647 ' @' ; 9)56 ' 231 35 ' 25' 8 2A) 56 ' :)' L ' 647 '
@ B4 @' %4>' B48 ' %2 8 A)' " < ' C ' ' 8 23 3?' 4%' 56 ' BAA 2 '
[' A 5' 56 8' 3?' 2A4 @' 3' 56 >' ; @)-' ' 1CA C)' 0
' (' G 5 43' 1431 >3 3?' 56 ' B > 43' 35 3@ @)' / 28)' C "' / /
& @1628 ; >)' @' 3' 2' 148 B> 6 3 : ' 3)' F' ! 3? ' C ' F '
A ' @% ' 56 >' B> 31 B2A' > 16 ' *4 ; ' ' ' ' @%#'
& @ 5 2@)' > 82>< ' 43' 5625' 4%' ?)' 5 ' ' A 5' ; @ 5 2@)' 4%'
8 52A' 345' 3 2A' 3' 231 35' @29)' &4&,- ' 34>' 3' 2>8' 14 3D
5>)' &4&,- ' 3' 56 ' 2 5' 4%2 ' >: ' %4>' ; @ ' 25' 3 ?65)' &4&,-'
' 5 ' 5 25 43)' F' 28 : ' F ']))'
(% @ ' 8 23 3?' 4%' 56 ' 328)' # 3 ' CC ')' 56 ' 5 ' 4%' 2' 143 "'
@ >2 ; A ' 5473' 3' 2%5 >' 5 8)' &4&,- ' 647 ' @' 3' 143+ 315 43' 7 56'
23)' # 3 ' CC ' / ' %4>5 % @' ; 9' 56 ' 5 >3' 6> 5 23)' &4&,+
' 7 69' 3 1 2>9' 53' ; ' 3@ > 544@%4>' 56 ' 28 ' 328 ' 2 ' A ; 2)
*4 6 ' C C ' F ' P =
7 69' 5 ' 5 25 43' ; 943@' * U ; A- ' B47 >)' / ' ! 3? ' C C '
) 8 233 >' 4%)-' #> <' > 3@ > 3?' 4%' 56 ' B6>2)' 84 ' : '
7625' 5' ?3 %)' &4&,+
&)' 4 ; >: 25 43' 4%' 325 >2A 5 ' > B 15 3?' 56 8)' * @? ' C : ' L
[' & ?23' 54' @4)-' Q1 ' ; >2 8 ' %4>' [' @ @)-' Q1 ' 3 5231 @)' 15 ' ' /
[' & ?25' 6 ' ' 7 56' 56 ' 7 4>@' 4%' 5> 56-' CBA2 3 @)' * 28 ' ' /L '
? >2 35' %4 3@ @' 43' 56 ' B2 2?)' &4&,+
& ??2> ' 7 64' >23' A2 ; 4 >' 62 : ' 34' > ?65' 54' 2A 8)' F' 6 ' ' A '
7625' ? : 3?' 4%' 2A 8 ' 54' 56 8')' &4&,- ' 162>215 >' 4%' 56 >' 2AA 3?)'
&4&,- ' ' ' '
& ? 33 3?)' 7 69' 6> 5' 12AA @' [' 56 ' ; ? 33 3?)-' 4A ' ' /L ' 7625' 4'
12AA @' ; 9' 56 ' #> <' B6 A4 4B6 >)' &4&,- ')
K 3' 56)' @' 3' 56 ' 28 ' 3 ' ; 9' 5' * 463' 2 ' 4)
* 463' ' / ' 7625' 56 ' CB> 43' %> G 35A9' ?3 %)' @' ' '
[' 4%' > : 3?)-' 143 @ >25 43 ' B43' 56 ' 8 23 3?' .4%' 56 ' R=
2?)' 5' CCC ' NF ' P ' ' ')' '
[' & ?@55 3' 943' 56>4 ?6' 56 ' #4 B A-' CBA2 3 @)' / ' 4>' : ' / 0 '
[' ' 2?2 3)-' 647 ' # 4@' ' 2 @' 54' 62 : ' @43 ' 4)' / 5' ')'
& 6 8 B56)' 56 ' 6 BB4B452 8)' 4>' > : >' 64>) @ 1> ; @)' * 4 ; ' C '
/ 0) / L)FN '] ' 5
& 3?)' 456 > ' ; @ ' 8 3' 35 > 5 @' 3' 4 >' ; A @' " 4>@)' B%2)
/ ' B>4B >+ ' 54' ; ' 82@ ' 4%' 16' 6 35 ' 2 ' 1> B5 > ' ? : ' 46
56 ' ; + 15)' f)) ' ' +
. ' 48 ' 2 ' &22A)' # 3 ' C ' ' 8 23 3?' 4%' 56 ' 328)' &4&,- ' ?4@'
56 ' &2 ; 9A43 23)' @ ' 7625' 8 235' ; 9' 5 ')'+@ : ' / ' '
. ' 23@' 56 ' ' 3 : >)' 3' ; > 7)' 12343)' 12AA @' %2 ; A4 ' ; 9'
5' * >48 ' 35>4@ ' 54' & A' 23@' 56 ' >2?43 ' ' *
. . ' 7625' 56 ' ; > 7 ' 74>@' 8 BA)' 5' C ' HG 5 ' 8 23D
3?' 3' A25 >)' 7 > 5 3?)' &4&,- ' 7625' 56 ' 328 ' @ 345)' ' 4>. ' '
/ NT ' a ' ' ' \
16 A@> 3' 4%' 764' 4' 12AA @' 3' 1> B5 >)' " C 5' . ' / 28
/ /' / F . C ' ' P ' '
& A %)' 56 ' 8 B4>5231 ' 4%' 5> ' > A ? 4 ' ; A %' 15 ' C ' 0)' 7625'
BB4 @' 3' 1> B5 > ' 54' 2> ' %>48)' F' 6>43 ' CC)' F ')
' 2>5 1A ' 4%)' 3' 56 ' B> 8 5 : ' 6 >16)' 4A ')' F '
& A :)' 3' 7625' 3 ' 56 ' * 7 ' 14 A@' 345' ; A :)' *463' C ' I+
Q'] T ' 7 56' 56 ' 6 2>5)-' 7625' 5')' $ 4 8 ' C)' / ' B6>2 ' ; 9' 7 6 16'
5' ' CB> @)' &4&,+
Q' & A : @' 43' 3' 56 ' 7 4>A@)-' 3@ >25 3?' $ ' B> : 2A 31 ' 4%' 56 ' #4 D
B A)' / 8 ' ' ' B2>' / F' > %A 15 43 ' 43' 5)' &4&,-' - %# / '
& A : >)' 2AA' 56 3? ' 82@)' ; >: 35' 54' 56 >' : >5 ' 23@' 62BB D
3)' / 4>' ' FF)' 1431A 43' %>48 ' 6 31 =' : >' F ' 3@ 1> 8 D
325 A9' 211 B5 @' 3' 6> 5)' # 2A ' ' FL
T T' 764' B>4 ; 2 ; A9' 35 3@=' ; 9' 56 ' CB> 43 ' 15 ' ' /0 ' 43 '
+ 15 > =' 2 ' 54' 56 ' 764A ' 3 8 ; >' 25' 56 ' 5 8)' &4&,+
& A : 3?' 56 ' # 4 B A)' 31A @ ' 4 ; @ 31 ' 54' 5 ' B> 1 B5)' 2><
C : ' . $ 48 ' ' ')
& AA)' 2' 21> @' 5 3 A' 4%' 231 35' ' 3' 2)' C4@ ' CC : ' '
56 ' 35 35' 4%' 56 8' 3' 6 ?6' B> 5- ' >4 ;)' &4&,- ' @' 3' 56 ' 28 '
8233 >' ; 9' < 3? ' G%' > 2)' &4&,- ' 82< ' B2>5' 4%' 68 -' 5>2BD
B 3? ' 3' >2 ; 2)' V 16 ' C :
& AA9))' 56 ' 372>@' B2>5 ' 4%-' 7625' 5' @ 345)' >B9 > CC ' /
[' & A4 : @' 4%' # 4@)-' 6> 523 ' 4' 12AA @)' $ 48 ' ' W
& F

2 K;1' IJ' I -;' 9M2 ,29.C' .II;ME

& " & VV $)' 6 '162>215 >)' * >'P ' N ' 764 ' 43' 6 ' 72)' 23 ' :
F' 6 ' 8B 59' 23@' 21> A ?)' 9 >' F)' N ' 6 ' 143% 43)' : >' M'
+ @?8 35' 43' 6 8' 2'B>44%' 4%' : 3 ' : 3? 231)' : >' H '
* . + -- ! ' 328 ' 76 31 ' @ > : @)' 23 ' ' W
.5%' 5 8BA ' 4%)' > 82><' 43 ' 'C: '
* ' 2' @ %' B> 5)' >256 >)' 2' 16 %' B> 31)' / 6>43 ' : ' 0'
6 '> 2@9' 143 35' 54' B>41A2 8 3?' 4A4 8 43' < 3?)' /' ! 3? ' ' M'
6 '< AA 3?' *42 ;)' / ! 3? ' ' N
& 3 @ 15 43' 1A4 3?' 56 ' ;44<' 4%' > : A25 43 ' $: ' C ' F/ ' 4%' 5
2 A' ' B4 54A 12A' & 3 5A 15 43)
& 3 %2154>)' 2' 5 5A ' ; 9' 76432' 2%% 15 @)' " /1 CC ' F0
& 3 %1 31)' > A ' ; 9' 7 6 16' 54' ; '@ 5> ; 5 @)' / 8 ' : ' L'
& 3 :4A 31 ' 3+4 3 @' 69' 56 ' A27)' 5 'C: ' AM ' 2 '54 16' 25' A 2 5'
; 9' 56 ' #4 B A)' &4&,+
T T ' 23@' A% ?4: >38 35)' > %A 15 43 ' 43' 5A 8' 2 ' B2>5 ' 4%' > A D
? 43)' *28 ' '
' 4%' 6> 5)' C 8BA % @' 8 3 35A9' 3' '>2 3?' 56 ' 7 @47-'
43)' " < ' : ' /0
T T ' 6> 5 23)' ? 3 >2A' > A ' 4%' # 2A ' : ' / ' 54' ; ' C >5 @' 3' @ %D
% > 35' @ ?>)' &4&,' > A '%4>' > ? A25 3?' 56 ' C >5 43' 4%' 5)' &4&,'
&8 :4A 35' @ B4 5 43)' 84@ A' %4>' 5 ' C64>525 43 ' 54' 74><' 4%'
162> 59)' F 4> ' C ' /0
@ (' < 8 ?' 4%' 9> 2)' 2114 35' 4%' 6 8)' / ! 3? ' CC ' / ' 6 '
;42 5' 2?2 3 5' >2 A)' : >' / / ' 56 ' 8 23 3?' 4%' A 62-' 23 7 >' 54'
6 8)' F' ! 3? ' : 6 ' / 34' @ 1 5' 3' 5625' 23 7 >)' &4&,+
T ' 148 843' 328 ' 4%' 9> 23' < 3?)' * >' CA C ' FW
* / ' 769' 1% $ @' 56 ' A2@)' # 3 ' CA+ ' L ' -'
T T' 769' 12AA @' 56 >' > A% %)' ' C: ' FW
5> ; ' 4%)' 7 69' 148 B2> @' ; 9' *214 ;' 54' 2' 74A%)' # 3 ' CA C ' FW
162>215 >' 4%' 56 ' 5> ;)' &4&,' 5 ' A43?' 1435 3 231)' &4&,' 5 ' 143D
3 C 43' 7 56' * @26)' &4&,' ;A 3?' ; 9' 4 ' CBA2 3 @)' 5
CCC ' /F ' 7 69' 8 35 43 @' 3 C5' 54' " :)' &4&,' 2% 59' 4%' 56 >'
> @ 31)' &4&,' 7625' 8 235' ; 9' 56 ' " 4>@' @ 7 AA 3?' ; 57 3'
6 ' 64 A@ >)' &4&,' 56 ' A 3 ' 4%' 56 >' ; 4>@ > ' *4 6)' C: ' /N'
7 69' 2' >34 > ' B2>5 1 A2>' 2114 35' 4%' 5 ' ? 3 2A4?9' ? : 3)' / 6>43
: ' / ' 769' 5' 2 A' B 1% ' 6 ' @ 1 35' %>48 ' 5)' 6 A ' ' 0
T ' ?25 ' 4%)' 76 > ' 5 25)' * >' CC ' F ') -
T T' 6 ' 8 ' CBA2 3 @)' # 3 ' CA ' N'
* / ' 56 >' B 3 68 35' 2BB>4 : @' ; 9' #4@)' * @? ' CC ' /0'
* ! ' 5 ' 5 25 43 ' 15 ' C: ' / ' 56 ' @41 A 59)' 7 @48)' 23@'
' 643 5' @ B4 5 43' M%' 5 ' 362 ; 5235)' : >' / / ' 2' %5' B255 >3' %4>'
) 4 >' 8 525 43' 3' C2 8 3 3?' 56 ' ?>4 3@ ' 4%' 4 >' %2 56)' &4&,'
& > 2: @)' %' ' ;)' Q1 ' CBA2 3 @)' # 3 ' CA ' /N
* ! ' @2 ?65 >' 4%' 54A 89' A A2@ AB6)' 82>> @' 54' 35 4 '
16 ' 6)' 23 ' C ' M
* # ' 764' 56 9' 7 >)' F' 28 ' CC ' /N' P
* ! ' 76 > ' 5 25)' U < ' CA: '
* ! ' 6 ' 5 5 8439' 54' ; 162@3 UU2>-' 143G 5' 4%' ?> 25 5
P B2>5' 4%' %> 12)' * >' CA: ' / ' P
& >9A)' 2' 16>9 4A 5)' 2' 54B2U)' V < ' ' -' '
& 5)' [56 ' 3' 76 16' @456' 4' 2 A9' ; 5')-' 7625' B2>5 1 A2>' 3
8 1 5)' ; ' C ' /
[' & 5' 23@' ?> 25 5)-' B> 8 ' & 3?' 4' 12AA @' ; 9' \56 ' # 35 A)'
$48 ' ' F/ ' '
* (o ' & 56 A' 769' 4' 12AA @' ' C C ' / L.' 4 ' : ' / 0.' ' 0)' L'
* (- + ' 76 > ' 5 25 @)' 1)' ' //
* (! ' 76 > ' 5 25 @)' * >' : ' / ' [
* (! ' 8 23 3?' 4%' '328 ' 8 ;)' CC ' 12 '
* (' 3' ?9B5)' 7625' 1 59)' * >)' CA ' /
* $ ' 76 > ' 5 25 @)' / 21 ' C ' #+
* ! ' 5 ' 5 25 43)' 23@' 0&0)' 4%' 56 ' 328)' *463' ' FL '
* (! '143+ 15 > ' 2 ; 4 5' 5)' * @?' : ' FN ' 5 ' 5 25 43)' &4&,'
* . ' 5 ' 5 25 43 ' 255)' CC :)' D+
* (+ ' 769' 4' 12 @)] # 3 ' C ' L ' 162>215 >' 4%' 56 ' BA21)' / 28
C ' ' 769' 2 @' 54' 3%A 15' %% > 3? ' 43' 56 ' >2 A 5)' 4 ' C ' /0
' ' ' ' B 4BA ' 4%)' 31A @ @' 3' 56 ' @ 5> 15 43' 4%')' *4 6=' : ' FO A ' 5 '
P 56 >' %4AA9' 3' 255 8 B5 3?' 54' 4BB4 ' 56 ' >2 A 5)' &4&,+
' 56 ' 4A@' B>4B6 5' 4%)' @4 ;5 ' 76 56 >' 6 ' 72 ' 2' 5> ' 4>' %2A
B>4B6 5)' / ! 3? ' C ' / / ' B>4 ; 2 ; A9' 2' 5> ' B>4B6 5' 4%' #4@)' ; 5'
14>> B5)' &4&,' > %A 15 43 ' 43' 6 ' %2A 644@)' : >' / L ' 56 ' > 2 43'
4%' 6 ' @ > 3?' 6 ' ; 43 ' 54 ; ' < @' ; @ ' 56 ' ; 43 ' 4%' 56 ' B>4D
B6 5' 4%' * @26)' : >' / ' 6 ' 82@ ' 2' > ?65' 11 8 8 35' 43' 7625' 62@'
62BB 3 @)' &4&,+
& 5)' @ 5> 15 43' 4%' 2A52>' 3)' ; 9' 7648 ' %4> 54A@)' 84 ' ' /N
' 7625' 5' 8 23 -' 43?' 4%' 4A ' ')' ' -'
' 8 23 3?' 56 ' BA21 ' 2%5 >72>@ ' 4' 12AA @ ' *4 6)' C ' / '
& 3)' 8 23 3?' 4%' 56 ' 328)' *463' : ' F
T T ' B44A' 4%)' 5 ' B4>16)' *463' : ' F ' 5 AA' 6 73' ; 9' 5>2@ 5 43)' &4&,+
56 ' 8 >21 A4 ' : >5 ' 4%' 5 ' 25 >)' : >' N
(% ' 5 ' 5 25 43)' U < ' CC : ' '
(. ' 7 AA' 4%)' 5>2@ 5 43' > A25 3?' 54' 5)' F' 28 ' CC ' &S'
D ' 4>' 4%' * @ 2)' 76 > ' 5 25)' 1 ' : ' F.' 255 ' /'
769' 4' 12AA @)' 1 ' : ' F ' 6434 > @' ; 9' 6> 5 23)' &4&,' 2BBA D
125 43' 4%' B>4B6 19' > B 15 3?' 5' 255 ' ' M
D ' 5 ' 5 25 43)' 255 ' CC ' /'
% ' 5 ' 5 25 43 ' 255 ' C ' F/ ' 5 ' B> 35' 525)' &4&,-'
%5@ C7 6 > ' 5 25 @)' / 21 ' : ' FJ
C (@ ' 56 ' 9> 23 ' 4%)' @ 1> ; @)' F' 28 ' C)' M)
(% ' 5 ' 5 25 43)' / 28 ' CCC ' /
(% % ' 8 3' 4%)' >>4>' 2)54' 56 ' 3 8 ; >' 8 55 3' %4>' A44<D
3?' 354' 56 ' 2><)' / 28 ' : ' I ' > %A 15 43 ' 43' 56 >' 4%% 31)23@'
3,&%% B 3 68 35)' &45-' '
5 . ' 769' 12AA @' 56 ' 9> 23' 4>' >2 8 <)' # 3 ' CC>' F
(5 . ' 76 > ' 5 25)' * @ 56' : ' M
& 7 516 @)' 7625' 56 ' 74>@' 2AA @ ' 54)' # 2A ' ' 5 ' 8 23 3?.' &4&,-'
& 943@' *4>@23)' B6>2 ' CBA2 3 @)' # 3 ' /' / ' 7625' 56 ' 4> ? 3@'
B6>2 ' 8 23 ' 255 ' : ' /0
o . . ' 769' B >6253>2AA9' 3@47 @' 7 56 ' < AA' 3' 5A ' 2>5d'
C4@' CCC ' '
23@' . @ ' 769' 2@' 54' ; ' % AA @' 7 56' 7 @48' 4%' 6 2>5)
C4@ ' 1113 ' *+
& >)' 4>' ; @)' 43' 76 16' B > 43 ' 4%' K$ (& /' 7 > ' 12>> @' %4>56' 54'
56 >' ?>2:)' F' 28 ' ' / ' ' [=
& >@)' B 1<A @)' 8 A 5 @ ' CBA2 3 @)' * >' C ' Z ' \
& >@)' %4>; @@ 3' 54' 56 ' ;> 7)' 31 >52 359' 1431 >3 3?' 56 8)'
" : ' C ' ' ? 3 >2A' 162>215 >' 4%' 56 8)' : >'
[á2AA47 @ 54' 56 ' ;> 7)' 56 >' ? 3 >2A' 162>215 >)' " : ' C ' /n
T T T' %A9 3?)' 8 A 5 @ ' CBA2 3 @' ' CCC ' ' B2>5 1 A2>' BA21 '
76 > ' 56 9' A4@? ' 3 5231 @)' V B6 ' ' /N
& >@-' 3 5)' 3+ 315 43' 1431 >3 3?)' 769' ? : 3)' 5' C ' M' A
& >56@29)' 647' 1 A ; >25 @' 3' 56 ' 2 5)' *4 ; ' N ')
& >56> ?65)' 8 239' B> : A ? ' 233 C @' 54' 5)' # 3 ' CC : ' /
b' B> >4?25 : ' 4%)' 3' 7625' 56 9' 143 5 @)' # 3 ' CA C ' ' 52< 3
; 9' 4 214 ;' %>48 ' $; 3)' &4&,' 54' 76 16' 4%' 6 43 ' ? : 3)' &4&,-'
& 64B)' 647' 56 ' 74>@' ' 4%5 3' @' 3' 56 ' 7' 528 35)' 6 A)
' /' ' ' P
' 23@' B> ; 95 >)' 48 5 8 ' @ B>48 1 4 A9)' / 8 .' 6 ' /
76 3' @ 5 3? 6 @)' &4&,-' %54 ' : >2AA9' 2BB>4B> 25 @.' &4&,' 845'
3 1 2>9' 54' @ 5 >8 3 ' 76 16' 4>@ >' 6 > ' 35 3@ @)' &4&,-'
& 64B)' 647' 59A @' 3' 56 ' %> 5') '* ' 3 ' 6 >16)' 6 A ' ' F0 ' 56 '
4%% 1 ' 4%' 143%>8 25 43' 54' ; ' 2@8 3 5 > @' 43A9' ; 9' 56 8 ' 15
: ' /W ' 8 B4 5 43' 4%' 623@ ' ; 9' 56 8' 3' 143%>8 25 43' 23@ @ '
325 43)' &4&,+
T = ' 23@' ?4: >34 > ' 4%' 56 ' 6 >16' 647' % C @' %>48 56 % > 5' 2?0)'
/ 8 ' ' /L ' > 2 43 ' 4%' 56 >' ; 3?' --*&0 ,C &4&,' 764' ? 3 D
>2AA9' 3@ > 544@' ; 9' 56 ' B6>2 ' 6 >)' 6 A ' %' /' Q' A Q
& 64B> 1<)' 647' @' 15 ' ' F ' -
& 55 >' 725 >' CBA2 3 @' 8 ; ' 3 ' /L' ' -
& 55 >3)' 7625' 5' ?3 % ' 3' 1> B5 >)' ; ' C ' /0 ' 7625' 8 235'
; 9' 2' >445' 4%' ; 55 >3)' &4&,' B >B4>5' ; %' 56 ' 8 52B64>)' &4&,-'
&A21<)' 647' 56 ' 74>@' @)' 2BBA @' 54' 5 > ' 14 35 3231)' * >' 7 "'
F/ .' "28 ' : ' L
TT 64>)' 7625' B > 4@' 5' @ 345 ' $: ' : ' 0 ' ; 9' 7625' 2>2 '
5 > U @)' &4&,+
&A21<3 ' 3' 56 ' 14 35 3231)' \7625' 5' 3@ 125)' * 4 A M ' P
&A28 A)' 7625' 8 235' ; 9' ['54 16 3?' 56 ' > ?65 4 3 ' 5625' ' 3'
56 ' A27)' ; A28 A)-' 6 "' A ' M
[' &A2 B6 8 @=-' 647' @' 5 ' ' 0
&A2 B6 8 >)' > 2 43' 4%' 5' 2 "'21<347 A @? 3?' 6 8 A%' 43)' A' 62'
&A2 B6 89)' 57@' ?3 % 125 43 ' 4%' 5)' 4A ' ' L
] T ' 23@' 1 > 3?)' B 3 68 35' > 14>@ @' 4%' " : ' CC : ' ' B>21D
5 12A' 3% > 31)' &4&,' 43' 7625' B> 31 BA ' 4' B 3 6 @)[, 0 ' /M
2?2 3 5' 56 ' 4A9' #64 5)' 7625' 56 ' 325 > ' 4%' 6 ' 3)' 255
C ' / ' 143% 3 @' 54' 56 ' 62> ' 3' 4 >' 2: 4 >-'
48 ' 3 ' 4%' 2' 325 > ' 2BB>4216 3?' 54' 5' 829' ; ' 148 8 55 @'
2 >' 6> 523)' &4&,' 769' 5' 72 3B2>@432A=)' : > F
&A2 5 3?.' 23@' 8 A@ 7)' 7625' 56 9' ?3 %9) 1=5 ' CC : a ?



2 K ; 1 ' I K ' I - ; ' 9M2 , 29 . C ' . I ; ME

' 647' 6 ' 6 2>@' 4%' 23' CB 15 @' A : > >)' 255 ' C : ' ' 6 >' %2 5A)' 6 8 A 5g)' 23@' B > : >231)' : > ' F)' FW)' FL)' 2' >2> ' CD 28 BA ' 4%' %2 56)' % >8 3)' 23@' > ?325 43' 54' 56 ' 7 AA' 4%' #4@)' 2><' : ' FL

(J ' @' 3' 2' A 8 5 @' 3)' # 3 ' C "' ' 7 69' 2 @' 54' 62 : ' ; 3' 3' 56 ' A23@' 3' ;>2628 - ' 5 8)' # 3 ' C ' W

T T ' 5 > 8 ' CBA2 3 @)' V 16 ' C : ' F/

' B>4B >A9' 4' 12AA @)' 7 64' 56 9') 7 >) *4 6 ' D ' ' 56 >' 143 5 >325 43' ; >: 35' 54' 56 ' : 3 ' B >B4)' 7 56' > B 15' 54' 56 ' >2 A%)' &4&, +

' 7 69' @ A : > @' B' ; 9' 56 ' "4>@' 54' 56 ' >2 A 5)' ! 8 ; CC ' ' 7 6 3' 56 ' C 1 5 43' 7 2 ' %% 15 @)' &4&, ' > %A 15 43 ' 43' 56 ' @ 5>' 15 43' ; >4 ?65' 43' 56 8' ; 9' 56 ' >2 A 5 ' ; 5 ' ' N5' 5 8 ' 23@' 25 %2154>9' 525 8 35' 4%' 56 ' 12)' &4&, ' 56 >' 3454> 4 ' @ D B>2 : 59)' 5 ' : ' FN ' 56 >' C5 >8 325 43 ' ?> 2 ; A ' 54' # 4@ - ' 8 4>2A' + 5 1 ' 23@' ?44@3 ' *4 6 ' C ' N ' ?3 @' B>44%' 4%' ' @ ' 'BA 2 > ' 2?2 3 5' 3)' 5 ' : ' FN ' 23@' 2' ; 3 :1@ 35' 7 2>3 3?' 54' 456 >)' &4&, ' 7 69' 56 9' 7 > ' @ 5>49 @ ' 5 ' C ' 0 ' B>44% ' 4%' 56 ' 2AA ? @' > 2 43)' &4&, ' > B 25 @A9' 7 2>3 @' ; 9' # 4@' 54' > B 35)' &4&, +' >2 A 5 ' 148 823@ @' 54' C5 >8 325 ' 56 8 ' 2 ' 1> 8 32A ' 143@ 8 3 @' ; 9' # 4@)' 5 ' C 6 ' .' *4 6 ' C ' N ' 56 >' C5 >8 D 325 43' + 5 % @)' 5 ' CC ' A ' 5 ' 232A4?9' 54' 456 >' + @? 8 35 ' 4%' # 4@)' &4&, ' B 1 A 2>' % 53 ' 4%' 56 ' 3 5> 8 35 ' 8 BA49 @' %4>' 5)' : > ' /W ' 56 >' 143 5 >325 43' ; >: 35' 54' 56 ' : 3 ' B >D B4)' *4 6 : ' ' 7 69' 345' 7 64AA9' @> : 3' 4 5' ; 9' 56 ' >2 A 5) P 8 ;)' CCC ' 00.' *4 6 ' C ' ' 7 69' 48 ' 4%' 56 8' A %5' 3' 56 ' A23@)' * @?' ' ' 7 > ' 1435 35' 54' B29' 5> ; 5 ' 54' 56 ' >2 A 5)' * @?') ' FW)' FL

T T ' 7 6 56 >' 1233 ; 2A)' @ ' C ' 0

J ' 1 5)' 7 69' 48 ' B%' 56 8 ' 345' @ 5>49 @ ' *4 6 ' C ' / '

J ' 56 ' 14 8 843' 328 ' 4%' 56 ' G 3 ' 4M' 56 4B 2)' 15 ' : FW

23@A)' A ?65' 4%)' 52< 3' 2729)' 7 625' 5' ?3 %)' * >' CC : ' .' 23@A 5 1<)' @ 345 3?' 16 >16)' 23@' 7 69)' & : ' ' /F

' 23< > @)' B4< 3' 4%' ?4A@)' 7 625' 5' ?3 % ' *28 ' : ' ' 5>43?' B4 5 12A' % ? > ' 2BBA @' 54' 5)' &4&, +

J ' 7 6 > ' 5 25 @)' U < ' CC : ' F

234B9)' 7 625' 5' ?3 %)' * @ 56' C '

J D 5 ' 5 ' 5 ; 25 43 ' ' C ' F .' 255 ' : ' / ' B 1 A 2>A9' % 55 @' %4>' 4 >' "4>@ - ' > @ 31)' &4&, ' 56 ' CB> 43' 4%' [' 148 3?' 54' 5' >AA 5>2% @)' *4A8 ' : ' ' 5 ' @ 5231 ' %>4 8 ' 232)' &4&, +'

J D 5 ' 7 6 > ' 5 25 @)' / 21 ' : ' +

3 6 7 69' 4' 12AA @)' A 21 ' R '' ' ? I

3 6 7 64' 56 9' 7 >)' * >' CA : A ' C ' 7 625' 14 35>9' 12AA @' 2%5 >' 56 8)' &4&, +' +

2B 52A)' 7 625' 4%% 31 ' 7 > ' 16' ; 9' 56 ' * 7 6' A27) " : ' CC :

T B 3 68 35)' 7 6 3' 3%A 15 @' 3' ; 9 3 2)' 56 >' : ' / ' AA 5>25 : ' 4%' 56 ' 12 ' 4%' 2 323)' &4&, +

' B 3 68 35)' % ; >' < 3@ ' 4%)' 3@ >' @ ' A 7 ' ; 5 ' Q ' F ! ' 6 #' *' E 6 ' &! 6 #' / ' '* ! ' V &" #' &4&, ' #(*/* ! ' ' 0 #' *' ' &4&, +

T T B 3 68 35 ' 3%A 15 @' ; 9' 56 ' A27' 4%' 4)' $48 ' C ' `N' 345' 143@ 8 3 @' ; 9' 56 ' 7' 52 8 35)' @' 2BB2> 35A9' 2@D 8 55 @' 69' 5' 2 A)' &4&, +

2B52 3' 4%' 56 ' 5 3BA)' 7 625' ' 8 235 ; 9' 56 ' 5 >8 ' 15 ' : ' / 4%' 56 ' ? 2>@)' 76 ; ' 8 235' 15 ' CC : '

T T ' 4%' 56 ' 64 5' 4%' 56 ' "4>@)' @ %% > 31 ' 4%' 4B 3 43' > B 15 3?' 56 ' B > 43' 3% 235 ' *4 6 ' : ' /N' B>4 ; 2 ; A9' 6> 5' 5A ' 43' 4%' #4@)' &4&, ' 56 ' @ ?3 ; %' 56 ' 2BB 2>231)' %4&, +

2B52 3)' 7 64' < 235' ; 9' 56 8)' " < ' CC ' N

T T ' 4%' 56 ' 64 5)' 7 64' 8 235' ; 9' 56 8 ' / #6>43 ' CC : ' /

2B5 : ' 3' 56 ' @ 3? 43 ' 2 @ >:235' ; 6 3@' 56 ' 8 AA '

2B5 :)' ; 2 > ; 2>4 ' 5> 258 35' 4% ' ' ' .' * >' C) FF '

2B5 : 59) ' ; > 3? 3?' 354' 12B5 : 59' : >9' 5 4 ?65)' Q1 -' ' 8 52>9' 5 >8)' 647' 2BBA @)' F' 4>' C ' 0

[T T 5 >3 @)-' 2' B>4 : >; 2A' CB> 43)' 7 625' 5-%A 64% ' *4 ; ' C ' +A

T ' A @' 12B5 :)-' 7 625' 5' ?3 %)' B%2 ' : ' L

T' ' 56 ' @29' 4%)' B>4 ; 2 ; A ' 8 23 3?' 4%' 56 ' CB> < 43)' * @? C : '

T' * 7 6)' 3' &2 ; 9A43)' > ' 4%' B>4B6 1 ' ; 3 5)' ' CA ' 3 8 D ; >' 12>> @' 2729' 3)' * >' A F . ' 56 ' A 3?56 ' 4%' 5' ?3 % @)' * >' CC C ' 0 ' X% O / ' 9 2> 4%' 647' \148 B 5 @)' * >' CC :)' / / .

A' CC ' A 7 A56 ' : 59' 9 2> ' ; ? 3)' 2 A ' ' / ' > 54>25 43' %>4 8)' B> @ 15 @ ' ' FM-' = ' &2 ; 9A43 6' 12B5 : 59

2B5 : 5 ' %' = A' 23@' * @26' B> @ 15 @ ' " : ' CC : ' FN ' 4%' 56 ')' >2 A 5 ' %4> 54A@)' ; 9' 4)' 5 ' CC : ' F ' 7 6 3' 56 ' 9D > 23' 12B5 : 59' 7 2 ' 54' 52< ' BA21)' &4&, ' %4> 54A@' 2A 4' ; 9' * > 8 =' &4&, ' 8 3 5 3 ' 4%' 56 ' B>4B6 19' > B 15 3?' 56 ' $4 8 23' 12B D D ' % (

2>2 : 23 ' 8 2@ ' B' 4%' @ %% > 35' 325 8)' # 3 ' CCC : ' FO ' 5 8 ' 4% A42@ 3?)' U < ' C ' N ' 647' ? @ @)' 43' 56 >' 7 29' ; 9' 3 ?65 ' *4 ;' ' C C ' ' =

2>2 : 23 2> ' 3' 56 ' 2 5' @ 1> ; @)' 11A ' C '

2>12)' 7 62 ' 8 235' ; 9' 56 ' CB> 43)' U < ' CA ' W'

4 ! ' 4>' 5 6 ' 2114 35' 4%' 5)' F' 6>43 ' CCC : ' F ' 5 ' 5 25 43 ' ' C ')+

2> ' 4%' 56 ' 16 >16)' 7 69' 8 35 43 @' 28 43?' 5 ' 2 A- ' %% > 3?) F' 4>' C ' FL

2> % A)' [' 345' 12> % A' 54' 23 7 >' 56 -' CBA2 3 @)' 23 ' ' ' ! + ' 8 4 35)' 5 ' : 1 3 59' 54' 56 ' 2)' / ! 3? ' C : ' N ' 769' 12AA @' [' 2> 8 A' 7 572>@)-' *4 6 ' C C ' Q' 7 69' 48 5 8 ' @ ? 3 >2AA9' 54' CB> ' %> 5% A' % A@)' ' ! 3? ' C C ' F ' B>4 ; 2 ; A9' 12AA @' [' 56 ' %4> 5' 4%' 56 ' : 352?)-' V 16 ' C ' ,2' 1 59' 4' 12AA @' 3' 56 ' 4 56' B2>5' 4%' * @26)' ' 28 ' C :

2>32A)' 7 625' 5' ?3 %)' ' 4>')' / ' 4BB4 @' 54' B > 5 2A)' &4&, +' [' 28 ' 12>32A)' 4A@' 354' 3)-' ; 9' 7 64 8 ' 56 ' ' 2 @)' $4 8 /N ')) P

T T ' 8 3)' 3' 7 625' 3 ' 2 @' 54' [' 2 47' 345' 5625' 7 6 16 ' 56 9' @4)-' &4 8 ' : ' / 0

2>B 5 %)' 56 ' 8 23 3?' ; %' 56 ' 6 *%, ' 4' 5>23 A25 @)' * >' CC : ' .' 255 ' C ' 00

2>5)' 43' 7 6 16 ' 56 ' 2><' 2 ' BA21 @)' 7 625' 4>5' 4%' 12>> 2?)' F' 25 : ' ' '

2>: @' 7 4><)' 7 625' 8 235' ; 9' 5)' >4 : ' : '

4 ' & # H & " ! ' ! & # $' ' <>2' D " ' / ! ' 6 ' @ : 43' 4%' 56 ' 21 @43 23' 8 B >)' 23 .' : '

[' 2 5 3?' 2AA' 94 >' 12> ' B43' 8)-' 7 625' 8 235' ; 9' 5)' / 5 ' : ' W' 7 625' 345' 8 235)' &4&, +

25 16 8)' 7 69' 5' @ 1> ; ' 2AA' 6> 5 23 ' 2 ' 8 8 ; > ' %%' 6> 5)' 4A ' ' / J

25 >B AA >)' 7 625' > 5 3@ @' ; 9' 56 8)' ' 6>43 ' > ' FL .' * >' A ' FW' 7 69' 2> 8 ' 148 B2> @' 54' 56 8)' * >' A ' /N)' FW

255A)' 4> 6 BB @' ; 9' 56 ' ?9B5 23)' C4@ ' C ' + 2BB4 35 @' ; 9' #4@' 54' ; ' 21> % 1 @ ' " : ' ' ' A2 ; 4 >' 4%)' B>46 ; 5 @' 56 ' 2 ; ; 256)' 5 ' : ' /N ' > ?2>@' 6 7 3' 54' 56 8 ' 3' 4A9' 1> B5 > ' 8 4> ' 5623' ; 9' 6 256 3' 8 4>2A 5)' &4&, ' > %> 6 8 35' 54' ; ' 2AD A47 @' 56 8 ' 43' 56 ' 2 ; ; 256' 3@ >' 56 ' 6> 5 23' @ B 3=5 43)' &4&, +'))

2 ?65' B)' CBA2325 43' ' 4%' %1' 2@A- ' A23? 2? ' 2 ' 54' 56 ' 8233 >' 4%' 6 ' ; 3?' 4)' ' 4> ' C ' 3 5231 ' 4%' @ %% > 35' 6 / ' > D 14>@ @' 3' 1> B5 >)' &4&, +

2 ' %4>' %% 15' %> G 35' 3' 21> @' 7 > 5 >)' 4 ' C : '

2: ' 3' * @ 2' C5> 8 A9' A2>?)' / 28 ' CC : ' ' B1< ' %5 1+ > 5' 3' * @ 2)' *4 6 .' C ' + . 5%43? 64A@ ' 3)' @ 1> ; @)' U < ' CCC ' ' '

[' 2 ' %>4 8)-' 8 23 3?' 4%' 56 ' B6>2 ' ' ' FF

@2>)' 162%215 >4%' 56 ' 5> ' 8 ; ' CC : ' D+

A' ':A A':1 A @' 7 56)' CBA2 3 @' 7 56' > % > 31 ' 5 ' 8 4@ >3' 1 548) * >' CC ' / N'

L L ' @' 48B> 6 3 : A9)' ' 1CA : ' J

@2> ' * ' " ; 23@3.' @ 1> B5 43' 4%' 56 33' 23@' 56 >' 3 8 ; >i' ' ! 3? ' , ' D# A 7 ' > 4 ' 54' ; ' 3' 56 >)' &4&, ' 56 ' %5 4@ ' %- 18 ' : 9 3?' 56 5%' 54' * > >2)' : >' ' 7 69' 8 35 43 @' 56 2=)' U < C : ' ' > 82>< ' 43 6 ' 48B2> 43 ' 8 2@ ' %>%' 56 8)' ' / .' C : ' N .' U < ' CCC ' ' 9> - ' ?>235' 4%' 56 7@4' 56 ' * 7 ' 2AA @ @' 54' 2?' '

6 ' ; >44<)' 8 23 3?' 4%' 56 ' %A 28)' * 463' C : ' * A ; 219)' @ 8 @' 2' ?> 25' 12A28 59' 28 43?' 56 ' >2 A 5)' * @?' C ' ; 9' 7 648 ' % > 5' B>4 8 45 @' 28 43?' \ 6> 5 23) - / - 8 ' : ' ' 764' 11 @ @' 54' 56 8' 3' > 148 8 3@ 3?' 5)' &4&, +' = ' 4%' 56 ' 1A >?9)' 345' > G > @' 3' 56 ' B> 8 5 : ' 6> 5 23' 8 3 D 5 >)' 15 CC ' ' 3M5' 3+4 3 @' 3' 56 ' 7' 52 8 35)' / 8 F' BA2 3' 35 8 25 45A ' 54' 56 ' 1435>2>9)' &4&, ' 7 625' 56 ' ' %4% ; @ ' @ 3?' 54' 8 2>>9)-' 2' 162>215 >' 4%)' &4&, +' >45 5235' @415> 3 ' 43' 56 ' ' ; + 15' 2?> 2 ; A ' 54' 56 ' A 7' 4%' # 4@)' &4&, +

@A2> ' 4%' 4 A)' 647' @' ; 9' 84@ 5' #> <)' ' 6>43 ' CC: ' FL
B>4 ; 2 ; A9' 56 ' * 7 ' @ @' 56 ' 28)' &3&,+
J . %P ' 54' 7625' > ? 43' B>4B >A9' 2BBA @)' / @>2 ' ' &T#
J ' 5 ' 5 25 43 ' 15 ' C: ' / L.' 48 ' C: ' /
3 > ' 4%' 8 3' A ' 54' ; ' > ?2>@ @' 5623' 56 ' 5 5 8439' 4%' 56 '
143 1 31)' 4>' ' / F
35 > 43)' 8 23 3?' 4%' 56 ' 5 5A ' 255 ' : ' 0 ' 143@ 5 43' 4%' 6 8 '
764 ' >: 235' 72 ' 6 2A @' ; 9' 4 >' 2: 4 >)' 255 ' : ' ' 2' B25D
5 >3' 4%' 6 8 A 59' 23@' %2 56)' : >' T ' > 2 43' 4%' 4 >' " 4>@- '
3148 8' 43' 6 8)' : >' ' ?
T ` ' 25' 56 ' 1>4)' > %A 15 43 ' 43' 6 ' 143% 43' 4%' 6> 5'2 ' 56 ' 43'
4%' # 4@)' 2><' C: '
J 5 % ' 7 6 > ' 6 ' B> 2@' 6 ' 6 > 9)' ' *463' ' ' 23@' 7 6 3)
&3&,+
J % ' @415> 3 ' 4%' 56 >' 6 > 9)' / *463' : ' 647' 4BB4 @'
; 9' 5' *463)' &4&,+
23@' ' 2AA @ @' 54)' / *463' ' ' 7625' 56 >' 6 > 9
72)' : >' F
J % ' 56 ' 148 843' 328 ' 4%' 56 ' $48 23' 8 B >4 > ' 255 ' CC ' / W.
15 ' , ' / / ' 54' 7 6 16' 4%' 56 8' 5' & A A' 2BB 2A @)' &4&,#
! ' 5 ' 5 25 43' 23@' 6 54>9)' 15 ' : ' N ' 4>@ 32>9' > D
@ 31 ' 4%' 56 ' ?4 : >34 >' 4%' * @ 2)' 15 ' CC ' F
' 5")' 5 ' 5 25 43' 23@' 84@ >3' 328 ' 255 ' C: ' /)
7 69' 6 A BB ' 2' B2>5' 4%' 5 ' 328)' &4&,+
62%)' 8 23 3?' 5>27)' 647' 143 8 @' ; 9' 56 ' * 7)' 255)')
+. '
[4%' 56 ' 84 352 3)-' 7 69' 4' 12AA @ ' ' C: '
T T ' @' 3' 2' % ? >25 : ' 3)' * >' CC ' FL
62 3)' ?4A@)' 82><' 4%' @ ?3 59' 3' ; 9 3 2)' 23 ' : ' W ' 74>3' 43'
56 ' 3 1<)' ' CC '
' 82@ ' ; 9' U < A' 54' %4> 6 7' 12B5 : 59)' U < ' : ' FL
J . % ' A23@' 4%)' B2>5' 4%' 4B452 8 2)' # 3 ' C ' FL
J . % ' 56 >' 1 > 4 59' 2 ; 4 5' 2 5>434 8 9)' F ! 3? ' C ' / F' 2@D
@ 15 @' 54' 2 5>4A4?9)' * >' C ' ' @' %4>' 82? 1 23)' 23 ' ' '
82@ ' C1 > 43 ' 56>4 ?6' >2 ; 23' @ >5 ' *4 ; ' ' / W.' 1> A' 3'
5 8 B >)' : ?4>4 ' 3' 35 >B>)' 2 ; ' '
J . ' 7 69' 2' : > ' 3' * > 8 26' 7 > 55 3' 3' 5)' + >' C ' / / '
J . P @ % ' 7625' B 4BA)' * >' C: '
628 ; > ' >4 3@' 2 ; 4 5' 56 ' 5 8 BA)' 56 >')' / ! 3? ' : ' 0
T A2>?)' B2>5 1 A2>' ' 4%)' * >' CC ' / N '
T T' 4%' 56 ' " : 5 ' CBA2 3 @)' * >' CCC: ' N
6231)' 7625' 8 3' @4' ; 9' 8 3?' 16231 ' # 4@' @ > 15 ' 54' ' 473'
3@)' / ! 3? ' CC ' N
' 8 @A 9)' C 8 B5 @' ; 9' 56 ' " : 5 12A' A27' %>4 8 ' 56 ' ? A5' 4%
8 >@ >' 8 ; .' CCC: '
623? ' 4%' B > 43 ' 2 ; 4 3@ ' 3' ; > 7' B4 5>9)' 5 ' CCC ' 0'
64 A@' ; ' 12> % AA9' 4 ; >: @)' &4&, ' 5 ' %4>1 ' 23@' ; 2 59' AA D
5>25 @' ; 9' 56 ' 43?' 4%' 4)' &3&,# %> G 35' 3' 1> B5 >)'
5 ' CCC ' ' 8 16' @' ; 9' 5' 2 A' 3' 6 ' B 5A)' # 3 >2A'
35>4@ ' B2>' 0 ' 23' 4112 43' 4%' 4 ; 1 > 59)' &4&, ' 3 5231 ' * ' 3' 5'
2 A ' 59A)' $ 4 8 ' : ' W ')0
T T' 4%' 3 8 ; >)' 3 5231 ' 4%)' ' 8 ' ' / 0 ' > 8 2>< @' 43)' &4&,+
': / ' : 4 1 -' CBA2 3 @ ' # 2A ' : '
[' 623? @' 56 ' 5> 56' 4%' # 4@' 354' 2' A -' CBA2 3 @)' $ 4 8 ' ' F0 '
62BA 5 ' 745C# = Z%A 2 5 ' 2 8 43?' 56 ' * 7)' ' CC: ' /
62>21A >- %' 4 >' 2: 4 >)' 143 @ >25 43 ' 43' 56 ' @ %% > 35' %% 15 ' 4%'
> %A 15 3?' 43' 56 ' 8 2+ 5 1<' 23@' 56 ' A4 7 A9' B2>5 ' 4%' 5)' ' 5 ' ' '
62> 45)' 574' 4>5 ' 4%)' 3' 1> B5 >)' C4@ ' C : ' W '
15 ' CBA2 3 @)' F' 6>43 ' ' / N
' 4%' 56 ' 16 > ; 8)' 76 31 ' 56 ' CB> 43' @ > : @)' ' 6>43
CC: ' / L ' 7625' 56 ' 74>@' 5>23 A25 @' Q 162> 45-' ?3 % ' ? 3 D
>2AA9)' &4&,+
T T ' 4%' 72>)' 7625' 5' > B> 35)' V 16 ' : '
62> 45 ' 4%' >43)' 7625' 56 9' 7 >)' 5 ' CC ' /
T T' %4>' 72>' 345' 3' ' 7 56' 56 ' >2 A 5)' 5 ' CC '
TT ' 52< 3' %>4 8 ' 2@2@ U >)' 769' @ 5>49 @' ; 9' 2: @)' 23@' 2' % 7'
> >: @)' F' 28 ' : ' N ' 56 >59' 23@' 574' 564 23@)' 7625' 56 9'
B>4 ; 2 ; A9' 8 23)' ' 6>43 ' C C ' W
62> 59)' 7625' B>4B >A9' 4' 12AA @)' ' 4>' C ' ' @ 53? 6 @'
)' %>48 ' 8 > ' 325 >2A' 2%% 15 43)' &4&, ' 3' 7625' 5' 143 5)' &3&,# 5 '
148 B> 6 3 : 3)' $ 4 8 ' C ' T ' @4 ' 345' @ 345 ' 239'
43 ' < 3@' 4%' @ 59)' / 5 ' : ' ' 7625' > 148 8 3@ @' ; 9' 5)' &4&,#
162>215 > ' 4%' 5)' 7 69' 3 8 >25 @)' ' 4>' C ' N)' W ' CBA2325 43'
* ' 5A 8)' : >' >T '
3 C '
62> 59)' 7625' 5' 148 8 43A9' ?3 % ' 25' B> 35)' / #4>' C ' / ' @ '
% > 35' ?3 % 125 43' 4%' 5' 3' 56 ' 7' 52 8 35)' &4&,+
T T ' 6> 5- ' B256 5 12A' > 148 8 3@25 43' ? %' 5 ' 255 ' CC: ' N ' 5'
?> 25' : 2A ' 3' 6 ' ?65)' 23' 3 : > 2A' 23@' B B 5 2'
@ 59)' $ 4 8 ' C ' L ' 5 ' ' 23@' 3 1 59)' / 4>' C ' /) L ' 2 ; '
4A 5 A9' > G 5 ' 54 56 ' 162>215 >' 4%' 2' ?44@' 823)' / 4>' C .' '
5> < 3?' 23@' CB> : ' 8233 >' 3' 76 16' 5' 2 A' 143 : 9 ' 56'
35 8 35)' &4&, ' 56 ' B >% 15 43' 4%' 2' 6> 5 23)' / 5 ' : ' L ' 2'
3@ B 3 2 ; A ' 143@ 5 43' 4%' 2A: 25 43)' / 4>' C ' / ' @4 ' 34'
2A43 ' 143 5 5 5 ' 56 ' 6> 5 23' 162>215 >' 255 ' CC: ' LO
T T ' B > 4> 59' 4%' 5' 54' B > 5 2A' ? %5)' / 4>' C ' / ' B>44%' 4'
5 ' B > 4> 59)' : >' L ' 769' ?> 25 >' 5623' %2 56' 23@' 64B)' : >' '
769' 12AA @' Q 56 ' ; 43@' 4%' B >% 153)-' # 4A ' ' / N ' 769' 12$ 1'
'56 ' ?>21 ' 4%' # 4@)-' F' 4>' : ' / '
T>T ' 3' 7625' 56 ' @ ' 4%' 5' 2> ' 473)' / 4>' C ' / ' 7625' 5' 5 3@'
54' 82< ' ' 3' # 4@- ' ?65)' / 6 ' ' / ' 143 @ >25 43 ' '
5 ' ; 3?' 2 @' 54' [' 14 : >' 56 ' 8 A5 5 @ ' 4%' 3)-' / ' : ' L
4%' 7625' 5' ' 23' : @ 31)' / *46%2' ' / N ' 647' 56 ' 31 ; 8 >
6 > ' B2 @' 46' 5' ' 54' ; ' 3@ > 544@)' &4&, ' 7625' 6 ' 764' > 2AA'
B4 ' 5' 7 AA' ;)' &4&, ' @ 59' 4%' B>29 3?' %4>' 5)' / 4>' C ' ' '
3456 3?' 84 > ' 54' ; ' 2@8 > @' 3' 56 ' B> 8 5 : ' 6> 5 23)' : '
/ ' 345' 54' ; ' C >1 @' %>48 ' 56 ' 64B ' 4%' 2' 5 8 B4>2A' > 148 B 31'
" < ' : ' 0 ' 7 AA' > 1 : ' 5 ' > 5 >3' 4%' ; A 3?)' : >' L
T T @ 59' 4%' 5' AA 5>25 @)' 11A ' C '
T T P215 ' 4%' 162> 59)' 76 3' 211 B52 ; A ' 54' # 4@)' * 28 ' ' FW ' 8 '
; ' 3 5 @' 7 56' B > 59)' &4&, ' 5 @' 54' 56 ' 328 ' 4%' 6> 5 23a'
15 ' C ' ' > 82>< ' 43' 56 ' 5>43?' 23@' 2%% 15 3?' C64>525 4 '
; 9' 76 16' 5' 2 A' > 148 8 3@ ' 56 8)' H' 4>' C ' / 0
=' 2A8 ' 4%)' 647' 8 2 > @' ; 9' # 4@)' 2><' C ' NN
*4 B6' 2' B255 >3' 4%' 255 ' ' / J ' ')
T 3T ' 4>' 2A 8 ? : 3?)' 56 ' B>215 1 ' 4%' 5' 3 1 2>9' 54' 2' 31 >'
6> 5 23)' " < ' C C ' L ' ' A 8 ? : 3?
62>8 >' 4%' >B 35 ' A @ @' 54)' 11A ' C ' /
62>8 3?' 4%' >B 35 ' 2AA @ @' 54)' ' : ' N)' 0 .' * ! 7 ' '
62 5 8 35)' @ %% > 31 ' ; 57 3' 564 ' 4%' 2>56A9' %256 > ' 23@' 5A'
' 256 >' 4%' B > 5)' ; ' C ' / '
62 5 59)' 2>? 8 35' %4>' 1 A5 : 25 3?' 5)' / 4>' : ' I +
6255 >)' 54' 16255 >)' 3' ; >@ ' 56 ' 28 ' 2 ' 54' B B ' ' CCC: ' / N'
! ' 2' > : >' 4%' 4B452 8 2)' B2>5 1 A2> ' 4%' 5)' U < ' &# /'
7 ! ' 7625' 8 235' ; 9)' V B6 ' ' N
' 7625' @4A ' 8 ; ' CC ' FJ .' * @?' C ' FN .' ' C: ' '
> 82>< ' 43' 56^' 2 1> B5 43' 4%' : 154> ' 54' 6 8)' * @?' C ' FN '
! ' 4>' ! ' 764' 56 9' 7 >)' C < ' C+1: ' '
V B6 ' ' 0
J %' 23@' . % ' 764' 56 9' B>4 ; 2 ; A9' 7 >)' F' 23
: '
! ' ; >44<)' 143+ 15 > ' 43' 5 ' 14 >)' / ! 3? ' C: ' '
6 > ;)' 7625' 5' 523@ ' %4>)' U < ' C ' ' 7625' 56 ' 74>@' ?3 % '
U < ' $' /N ' 769' 56 ' < 3?' 4%' 9> ' 148 B2> @' 54' 43)' U A
CC: ' / N)' ' ')
6 > ; 8)' > 82><' 43' 56 >' %21)' U < ' C ' / L ' 769' #4@' 2'
54' 5' ; 57 3' 56 8)' U < ' CA ' W ' 7 3? @' % ? >)' C4@ ' CC f'
/ L ' 4%' 7625' 62B ' 31 >52 3)' &4&, ' 56 ' ?A4>9' 4%' 56 ' " 4>@' > '
@ @' ; 57 3' 56 8)' &4&, ' 1> B5 >2A' B6>2 ' @ > : @' %>4>'
6 31)' &4&, ' 564 ' 82@ ' ; 9' 4A4 8 43' @ %% > 35' %>4 8 ' 564 ' 1 3'
5> 15 @' ; 9' 4)' / ! 3? ' : ' F ' 7625' 56 9' > B> 35 @)' &4&.
' 4%' ?A4>9)' 769' 4' 12AA @)' ; ' C ' 0 ' ')
6 A@)' ?3 % 125 43' 4%' 56 ' 5 > 8)' * >' ' M
82A)' 1 > 843 ' 25' 2334 31 3?' 5 ' ; >56 ' * 4 ; ' ' .' *
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7 23 @)' 6 8 ; A ' 4 A' 769' 148 B2> @' 54)' ' 1CCC ' F
4%' # 4@)' 7625' 5' 8 B4>5 ' 3' 1> B5 > ' B6>2)' $ 4 8 ' : '
4%' 6 AA)' 7625' 5' 8 23 ' 255)' CC ' / 0
6 A@A)' 769' * 143 26' 4' 12AA @)' * >' CC ' L
6 A@> 3' 12> % AA9' 3 5> 15 @' ; 9' 56 ' >2 A 5)' C4@ ' C ' / N
B2>5 1 A2>A9' 3' 56 ' 8 23 3?' 4%' 56 ' B2 4: >)' C4@ ' C ' HD# @ 5#
4%' 3 5> 15 3?' 56 8' 8 16' 3 5 @' 43' 3' 1> B5 >)' 5 ' : ' W
3 5231 @' 3' ; >262 8)' &4&, ' 3@ >' 56 ' " 27)' &4&, ' 23@' 56 ' # 4 '
B A)' &4&, ' 647' 3+4 3 @' 43' 56 ' >2 A 5)' &4&,+ ' G 2AA9' 2BBA 12'
; A ' 54' 6> 5 23)' &4&, ' @ 125 43' 4 +' @ A ? 35A9' B>215 @' ; 9' 56 '
* 7)' 5 ' C ' ' 2' 628 ' 54' 8 239' 6> 5 23)' &4&, ' 5A 6N'
; >4 ?65' 54' 6> 5)' 25% ' C C ' H# 56 >' 5 5A ' 54' ; ' 2@8 55 @' 351'
14: 3235' 7 56' # 4@)' / 4>' : ' / N ' 769' 56 9' A 4 A@' ; ' 2>A#
82@ ' 21G 2 35 @' 7 56' 56 ' 1> B5 >)' F' 8 ')' / 0 ' 647' 34A

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54 B>4 : @ @ 54 7>256) B6 : > Y 647 54 ; ; >4 ?65 B 3 56 3 >5 > 23@ 2@ 8 43 5 43 4 56 4>@) + 6 A@> 3) A 55A) 647 56 6> 5 23 54 > 8 ; A 56 8) 2>< C /N 769 6> 5- @+ 1 BA > ; < @ 564 5625 ; >4 ?65 56 8 54 6 8) : > H+

T = 56 B4A 19 4 B> 31 3 3@ 2 : 4 > 3? 54 5> 3?56 3 56 > 35 > 5 7 56 8 239 16 A@> 3) 28 : H+

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5>23?) 7625 8 235 ; 9 56 8) . CAA : W

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T A23@ 4> A 4%) :625 14 35> 35 3@ @ ; 9 5 8 ; CC : FN 2 %+ . U < CC : + 76 16 4 564 14 35> 8 235 P 3 &2A228 - B>4B6 19) 8 ; CC : FN

6 B 4%) CBA2 3 @) 23 C FJ)

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64 1 4 2 729 4 A % 4%5 3 8 B> @ 35) C 8 BA % @) # 3 C / [644 CBA2 3 @ 35 C 56 B47 > 4 1644 3?7 A % 4> @ 256 ? : 3 54 8 3) 5 CCC

! - 5 BB4 @ 5 25 43 255 C 56 + @? 8 35 @ D 34 31 @ 2?2 3 5 5) : > A 4 3) 7625 56 : > ; 4 > 3@ > @ ?3 %) B6 N 2BBA @ 54 6 23 35 >2 A 5) + 23@ 54 6> 5 23) + T ? 3 >25 43) Q1 5 5A ? : 3 54 5A * 7 2BBA @ 54 56 6> D 5 23) / 5

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Q TT 3 56 "4>@) 7625 5 ?3 %) 48 C : /

54 2A:25 43) 3 7625 3 56 6 2A43 23 2 @ 54 ; 4) 6 N 56 > 2A:25 43 345 1 >52 3 23@ 3%2AA ; A) + 34> B> : 35 : 4 @ 4>@ >A9 ; 62 : 4 >) >%

! ?3 % 125 43 4 56 328 255)]]]]] B>4 : @ 54 ; 8 4> 5623 823 #2A 8 >21 A4 143D 1 B5 43 @ 5 3? 6 8 2 ; 4 : 2AA 456 > >4B6 5) 255 / L) F0 76 > 3 ?> 25 > 5623 ; >262 8 23@ 4) *463 : H>+ 148 B2> @ 54 4) ; / B > 4> 59 54 6 8) 769 3 5 @ 43) : > 3 5231 4 B > 4> 59 54 4) : > 82>< @ @ %% > 31 ; 57 3 56 8 769 B4 35 @ 4 5) + D B > 4> 59 54 56 231 35 >4B6 5 6 73) *463 N 56 CD 1 AA 319 4 325 > 6 73 ; 9 56 &2B5 5- 3% > 4> 59 54 8) 255)) ; 9 62 : 3? 16 2 @ 5 3? 6 @ %4> D > 33 > 2 *463) 255 "' 35 2A B > 4> 59 4 : > 56 23? A) ; N C2A525 43 2 ; 4 : 56 8 3 6 823 32D 5 >) + ?>4 3@ 4 B > 4> 59 2AA ? @) : > 0)

T T - : 3 ? 3 >25 43) 1 : 2>? 8 35 4 B> C 5 531) / 5 / J 0 #2A : W 2 4A / 0 ; 5 31 ; %4> 56 1> 25 43) 23@ 5 >32A C 5 31 84 5 1A 2>A9 B>4 : @) *463 B>44 4 ; 3? 35 2AA9 56 43 4 #4@) #2A : N 43 7 56 #4@ 56 256 >) 255 C 3 59-4 31 7 56 56

256 >) *463 C 1) 74>@ 3@ > 544@ ; 9) 56 * 7 54 CD B> 56) = / B>44 4 2 @ : 3 59) 23@ 35 2A 3 59 7 56 56 256 >) / B>44 4 5625 5> A9 #4@) 43 7 56 56 256 >) $48 : @ : 3 59 B>4 : @ %>48 5A A@ 528 35) C4@ N Z 3 2 : @- 74>@ 255) CC NO %>48 47 3 @ 2>25 43) [28 ; %4> ; >2628) *463 : 0L %>48 7625 @ 1A2> 4 % 8 A%) : > / N ; 9 2 @4 D ; A 2>? 8 35) $48 C / ; 9 8239 1A 2>) AA 5> 4) 23@ 84 5 1435 5 ; A 2>? 8 35) * > CC D 2 *463 . < 463 C N / 2 $48 C 0 @ : 3 59 B>4 : @ 15 CC FL 34 %% 1 35 ?>4 3@ 4 @4 ; 5 2 54 56 ? 3 3 3 4 56 5 C5) &4& , 14AA 15 : B>44% 4 @ : 3 59) ; / N 5625 26 72 56 43 4 #4@ 2AA47 @ ; 9 56 * 7) 255 / N ! B4< 3 4 ; 9 56 328 4 * 64:26) : / 0 CA H2 CA : F . * > CC D 2 ! * C U2 * (F 2 2 / 2 $48 / 56 "4>@) 4 W . 23 C /W 56 %, G 2A 7 56 56 256 >) V 16 C W 56 "4>@ * 3* + + &&&+ Y . / 5 L 56 84 5 3&) 3 *, CC : >D 3 *%, #4@) CA N . CA : M 56 ?659 #4@) C M > 31 4 B> 31) 23 : FO ! 3? 4 < 3? 23@ "4>@ 4 A4>@) / 8 : / 0 . $: C C B > 8 5 8 A% 54 ; 12AA @ #4@) ; 9 5 6482) *463 FL 59A @ [5A ?> 25 #4@ 23@ 4 > 2: 4 >) - 5 # / 2>D ? 8 35 %>48 56 5 C5) &4& , 35 >B> 525 43 4 56 35 1 3 256 >) &4& , B4< 3 4 ; 9 56 328 23@ 7 56 56 B>4B >5 4 % #4@) 48 C : /F 23 2>? 8 35 %4> @ : 3 59 7 56 56 2>A9 6> 5 23) &4& , 5> A9 #4@) 23@ 56 > 254> 4 2A4 56 3?) / 4> : D 574 2 >5 43 4 56 B> 8 5 : 256 > 1431 >3 3? <) &4& , 56 328 4 #4@ 255> ; 5 @ 54 8) F 5 /) > 82>< 43 56 > 3@ > 3? 4 56 B2 2?) &4& , 12AA @ 56 5> #4@) / *463 3 F > 82>< 43 56 B2 2? . &4& , & 323 7 >2 ; A P2>? 8 35 %4> @ 59) &4& , % 345 56 5> #4@) 8 5 ; 23 @4A) : > F / @ 1A2> @ 54 ; 56 B> 8) A8 ?659 23@ 5 >32A #4@) $: ") 4 56 > 254> 4 2A4 56 3?) ; 456 : ; A 23@ 3 : ; A) *463 . 4A / 0 . ; F 4 : > ?3 23@ 43 >:254> 4 2A4 56 3? 4A / 0 B2< ; 9 B > 5 3 56 >4B6 5) / 5 / / >2 %>48 56 @ 2@ 7648 7 AA) *463 : F / 56 # : > 4 5 >32A A %) *463 N 6434 > @ 54 8) *463 : F 6 B 2< 4 2 8 >21 A4 B47 > 36 > 35 3 8 A%= 255 C D @ : 3 59 6 73 ; 9 @ A ?25 43 4 8 >21 A4 B47 > 54 B4 5A) 255 C / ; 9 ? : 3? 823 3@ > 523@ 3?) / *463 3 F / ; 9 B47 > 4 %4>? : 3? 3 255 C 2 B47 > 1A2 8 @ ; 9 8 A% 2 #4@) 2>< / 23@ %>48 56 > C >1 4 < 3?A9 4%% 1 ; N 56 B > 8 3 35 @ ?3 59 4%5 3 255> ; 5 @ 54 8) &4& ,

T T 5 >3 59 2 >5 @) / *463 / . $:) L . CC / B47 > 54 @4 2AA 56 3?) *463 C F0) J . 2AA B47 > 23@ 7 @48) 255> ; 5 @ 54 8) $:) / F 5> 56 23@ %2 56% A3) $: C C / / B>44 4 48 3 1 31) / 4> : 0 . * + &M + 345 C1A @ @ %>48 56 255> ; 5 * 7 @48) &48 C : 56 2>16 > 4 6 2>5) *463 : MN %4> <347A @? 3 B4 35 3? 4 5 ; 5>29 > 255 CC : F0 21G 2 35231 7 56 56 6 2>5 4 2AA 8 3) < : N . *463 &&+ FN %4> <347D A @? 4 56 > 564 ?65 255 C N 5 >32A ?A4>9 2 1> ; @ 54 8) ; C F / 769 2 B>44 4 @ : 3 59) &4& , 3 P7625 3 5 >32A B47 > 23@) (*% / + + MM&+ D# 56 B>4B > 4 ; + 15 4 74> 6 B) *463 C : / N . 15 CC . *4 A F 56 #4@ 5625 6 2> 56 B>29 >) / *463 # /N 56 B>4B> 59 4 B>29 3? 54 8 6 73 ; 9 56 C28 BA 4 5 5 D B6 3) 15 : 23 215 4 > A ? 4 74> 6 B B %4>8 @ 54 8 ; 9 5 2 A) $48 C / 3 : 4125 43 4 8 C 8 BA % @ 15 FN . F 4> C L . F 6 / M) 148 843A9 3D :4< @ ; 9 5 2 A 3 143+ 315 43 7 56 56 256 >) $48 . W . / 6 / / B>29 3? 54) 3454> 4 A9 B>215 @ ; 9 56 % > 5 6> 523) / 4> F 56 4 ; + 15 4 74> 6 B 54 23? A) 23@ 143D G 35A9 54 8 3) ; M 74> 6 B B2 @ 54 8 ; 9 56 23D ? A 23 31435>4 : >5 ; A B>44 4 @ : 3 59) &4& , 3 : %625 162>215 > 54 ; 143% @ 23@ 74> 6 BB @) 6 A / / @4>25 43

T T 2BB 2> @ 354 @28) * > N 354 ;>2628) # 3 C : / .) C9 F) 23@ *214 ;) > 3 CCC FN 56 3? A 76 16 > @ 8 @ *214 ;) # 3 CA : AM 2BB 2> @ 54 4) C4@ F) N 143

A5515 @ A: ' >2 A 5 '4 5'Z>% ?9B5 ' C4@ ' C ' F/ ' 564 ?65' 54' 62: ' 2BB 2> @' 54' *4 6 2)' 2 ' [' 56 ' 2B52 3' 4%' 56 ' 64 5' %' 56 ' " 7 @ i ' *4 6 ' = ' /N' 56 ' ?32A' 8233 >' 3' 76 16' '%4 ?65'%4>' >2 A)' &" , ⁄ 2BB 2> @' 54' 28 A)' /' 28 ' ' F/ ' 2+= 2> @' 54' * > 8 26' 23@' U < A)' * >' ' N' 23@' 54' 23 A)' 23 ' C ' 0' <3473' 54' 56 ' 25> 2>16)' ; ' C ' ' 35 >B4 @' 3' 56 ' B>4D 5 15 43' 23@' 143@ 154>' 56 ' >2 A 5)' &4&, ' 2114>@ 3?' 54' 56 '4B D 3 43 ' 4%' 56 ' B> 8 5 : ' 6 >16)' &4&, +

)' 56 ' @' 4%' 56 ' 4823' B>4 8 @' 54' @28)' # 3 ' ' /0 ' 56 ' B>4 8 ' 4%)' 54' 7648' 5' @ 1 3@ @' %>48' @28)' / 6>43 ' FN' %4> 6 73' 54' ;>2628)' # 3 ' C ' ' 21<347A @? @' ; 9' 56 ' * 7 ' %4>' 56 ' @' 4%' ;>2628)' #2A ' (D⁄ 59B % @' ; 9' A ' 16 U @ <)' # 3 ' C : ' /L ' ; 9' 221)' # 3 ' CC ' ' 35 3@ @' ; 9' 6 A46)' # 3 ' CA C ' / ' B >%4>8 ' #4@- ' 5> 56' 54' *214 ;' ; 9' 12AA 3?' * 7 ' 23@' # 35 A ' 354' ' 6 >16)' 1 ' : ' F ' 4 >' B > 5 2A' 4 ' C4@')' FN' 56 ' >4B6 5' A < ' 354' 4)' 5 ' C : ' P/L ' 769' B>4 8 @' ; 9' 4 ' 3@ >' 56 '5 5A '4%' >4B6 5)' >25A >' 5623' 4%' B> 5' >' < 3?)' 5 ' C : ' /M ' 56 ' 43A9' >4B6 5' %4> 54A@' ; 9' 23' 235 1 @ 35' >4B6 5)' : >' /L ' B>4 8 '4%)' 2114 35 '%4>' D : >2A' B2>5 1 A2> ' 3' 56 ' 32>>25 : ' 4 = 4)' # 3 ' C C ' D⁄ 56 ' 5> ' 2 162A' "2 8 ;)' *463' C C ' M)' LW ' 59B % @' ; 9' 2>43)' 8 ;)' C : ' ' 23@ ; 9' 56 ' ;>2 3' >B 35)' 8 ; ' CC ' L ' C215A9' B> D % ? > @' ; 9' *4 6 2)' 8 ; ' C ' ⁄ ; 9' 2 : @)' ' C : ' / .' CC ' 35>4@ ' 23@' : >' /L .' C C ' 35>4@ ' 23@' : >' F / .' CCC C ' 35>4@ ' 23@' ; 9' 4A4 8 43)' '1CCC ' / / ' B>4B6 19' 4%' 8 ' 2 ' 56 ' @' 4%' 2 : @) 7 64 ' 5 ; >43 64 A@' ; 52 ; A 6 @' %4>' : >)' F 28 ' : ' /N)' ' .' ' 1CCC ' / / ' 8 B4>5231 ' 23@' 148 B> 6 3 : 3 ' 4%' 126- ' B>4B6 19' 1431 >3 3?' 8)' 1 ' : ' D⁄ 8 B4 ; A 59' 4%' 2BBA9 3?' 2A216 ' BB% B6 9' 54' 239' ; 5' 8)' 2 ' ' ' > D 8 2><2 ; A ' > 725 43' 8 2@ ' 43' ' 2114 35)' /' 21 ' C : ' N/ T ' 2' 312>325 43' %4> 54A@)' ' C : ' 35>4@ ' 5A '5 8 ' 4%' ' 2BB 2>231 ' B4 35 @' 4 5' ; 9' 5A ' 1> B5 > ' B>4B6 1 ' # 2A.' : ' N' ' 148 3?' CB 15 @' %54 8 ' 56 ' CB >25 43' 4%' 23 A- ' 7 <)' 23 ' C ' ' ' 8 >21 A4 ' 1431 B5 43' B> @ 15 @)' * > CCC ' ' 54? 56 >' 7 56' ' ; >56 ' ' : ' /N ' 54' 148 ' 4 5' & 56 A 6 8)' 1 ' , ' F)' 54' B> 216' ' # 4 B A' 3' # 2A A)' 3' 56 '5> ; '4%' V ' ; A 3' 23@' 2B652A)' ' C ' F ' 8 >21A 'B> @ 5 @' 4%' 8 ' 7 6 16' & ' >4B6 5' B >%4>8 @ ' 'CCC : ' 0)M ' 7 2 ' 54' > 54> ' 56 ' 3@ >D 523@ 3?' 4%' +74BA 19' 'CC C ' / / ' 54' CBA2 3' B>4B6 19' ' : ! ⁄ 23@' 54' 12 '56 ' 21> %1 ' 54' 1 2)' 23 ' C ' ' 23@' 54' B>4D 5 15' 56 ' B44> ' ' C ' N ' 56 ' 43A9' : ; A ' 6 16 326' 3' 143@' 5 8 BA)' 2 < ' CA ' W ' ' 4 ; 1 > ' 143@ 5 43' > ?3 % @' ' C ' ' ' 6 8 A 25 43)' B4 : >59)' 23@' 4>>47 ' + ')' Q1 ' 56 ' ; D 5>29 3?' 4%' 8 ' > B> 35 @)' V 16 ' C ' / ' ' %% > 3? ' B2 ' 56 5 =A9' @ 1> ; @)' ' CC ' %% > @' 2AA' 76 16)' 2114>@ 3?' 54' 56 ' >4B6 5)' 26' 72 ' 54' %% >)' 2><' C : ' N' ' 143 4A2D 5 43 ' @ > 3?' ' 2?439'%4> 54A@)' ' 1C ' W ' ' > >> 15 43' 2AD A @ @' 54)' 4 ' : ' F ' 5625' 23@' '>492A' 525 ' %4> 54A@' 2114>@ 3?' 54' 56 '+ @?8 35' 4%' 56 ' * 7 6' 6 >16)' ' ' : 154>9' 4 : >' 2523' B> @ 15 @)' ' : ' 35>4@ ' 5625' ' 64 A@' @ 5>49' @ 256' +43% @' ; 9' * 7 6' 7-> 5 >)' ' CC : ' ' ' 2 1 3 43' %4> 54A@' 2' C : ' /L ' 23@' 8 9 5 12AA9' > B> 35 @)' ' CA : ' 0 ' ' C ' A525 43' B>4B6 @' 4%)' U < ' CC ' ' '148 3?)' ; 9' 7625' @ D 5 3? 6 @)' V 16 ' C ' Z' '143G 5 '345' *' 4 '4%' 2' 1 A2>' 32D 5 >)' : >' ' ' < 3?@48' B4 35 @' 25)' ' C : ' 35>4@ ' B>4D B6 @' 4%)' U < ' : ' FF T JY2' 23 ' ' N)' 0 ' > 1 : @' %>48' ' 256 >)' 23 ' : ' / ' B>4 B > 59' 4%' 5 ' : ' ' B 21 2 ; A D 3 ' 4%' 5)' V 16 ' C ' / ' 54' ; ' 3 : > 2A ' ' C ' / ' 54' A2 5' %4>' : >)' 23 ' : ' /N ' 54' A 2 : ' 34 3@)' ' C : ' M ' ?A4> ' 4%' 5)' ')' CC ' 35>4@ ' 54' ; ? 3' 25' * > 2A 8)' ' 1C ' F ' B>4?> : ' D 52 ; A 6 8 35' 4%' 5)' U < ' CA : ' / ' 5 >32A' B> 5644@' %4> D 54A@)' * >' CCC ' ' '5 8)' 647' @ 1> ; @' 56>4 ?64 5' 56 ' >4B6 5)' %1 < ' C ' '' 3' 56 8' 72 ' 54' ; ' 56 ' 148 BA 5 43' 4%' B>4B6 19' ' C : ' / ' T ' 7625' 56 ' 328 ' B>4B >A9' 2AA @ ' 54)' / *463' : ' 7625' 8 235' +9' @ 39 3?' 5625' * ' '56 ' 6> 5)' &4&, ' 769' 12AA @' 56 ' 3 ' > A' 4%' 56 ' "4>@)' C4@' ' F ' 769' 12AA @' =56 ' 4>@)' / 28 ' ' F / .' *463' ' / ' 8 235' ; 9' -2 A)' ' CA C ' ' 769' 12AA @' 4 >' 2 47>)' / 4>' : ' W ' 56 ' 4A9' 3 ' 4%' #4@)' ' C : ' / ' A' 56 ' .44@ 6 B6 >@)' U < CCC : ' ' 12AA @' 2: @' ; 9' 56 ' >4B6 5)' A >' 111 ' J .' U < ' CCC : ' F)' FN ' 12AA @' 2: @' 56 ' ! 3?)' 4 ' ' 0 ' 12AA @' > 31 ' 4%' 56 ' 64 5)' 23 ' : ' / / ' 12AA @' 56 ' &>2316)' A >' CC ' 0' 2' P .3+' ' L ' 769' 12AA @' 56 ' 2@)' A4 ' ' / / ' 3' 5625' 729' B4< 3' 4%' 2 ' ['56 ' "< 8 ' 4%' 56 '5> ; ' 4%' * @26)' ' 4 ' C

' ' 01D' 12AA @' 56 ' &> 2< >)' "4>@' 23@' ! 3?)' 1 ' %AK ' / .' 769' 2 @ 54' ; ' 21 .' 4>' 4 >' 21)' 1 ' : ' 0' .' 2?' ' ' : B6)' ' /N' 23@' 56 ' > 31 ' 4%' 21)' ' C ' M)' @ 1> ; @' 2 ' 56 ' ?> 25' 6 B>' 6 >@)' 5625' 62AA' ; ' 8 55 3)' V 16 ' C ' W ' 56 ' @ > ' 4%' 2AA' 325 43 ' 2? ' ' ' 56 ' ?A4>9' 4%' 143@ 5 8 BA)' : >' ' 3? >' 4%' 56 ' 4: 3235)' 2 ' ' / ' 769' ?3 % @' 3@ >' 56 ' 8 5 @ ' 4%' 2' > % 3 >)' : >')' ' 769' 12AA @' 56 ' 3' 4%' $?65 4 3)' 2A ' : F ' 769' 59A @' 56 ' 43' 4%' 2 : @' 23@' ; >262 8 ' ; 9' 5' 2556 7)' 2)55' ' / ' 769' 59A @' (; 56 ' 43' 4%' 823)-' 255 ' : ' F ' 647' ' @ 1A2> @' 54' ; ' 56 ' 43' 4%' #4@' ; 9' 56 ' > >> 15 43) ' $48 ' >' N' 769' 12AA @' (; #4@- ' 473' 43)-' $48 ' : ' F ' 769' 12AA @' ; 9' 5' 2 A' 56 ' 43' 4%' #4@)' ; ' ' F ' % A3 ' 23@' CB> : 3 ' 4%' ' A23? 2?)' &4&, ' 76 31 ' 12AA @' ['2' B>4B 5 25 43)-' $48 ' ' FO ' 3' 7625' 3 ' ' 82@ ' 354' ' 7 @48)' 23@' > ?65 4 3)' 23@' 2315 % 125 43)' 23@' > @ 8B5 43)' / 4>' ' ' ' ['56 ' 82?' 4%' #4@-' 3' 574' 3)' F 4>' : ' N ' 647' ' ' ' " 4>@' 4%' 56 ' @ 2@.-' $48 C : ' J ' 647' 2 @' 54' ; ' ' 56 ' B > 5)- F 4>' ' ' 769' 12AA @' ['56 ' B4 5A ' 23@' ?6' > 5' 4%' 4 >' B>4% 43)-' A ; ' ' / ' 54' 7648' : >2AA9' 148 B2> @)' &4&, ' 769' 12AA @' [56 ' %2 56% A' 7 53)-' $: ' ' 0 ' 3' 7625' 3 ' ' ['6256' 82@ ' $ ' < 3? ' 23@') B> 5)-' &4&, ' 769' 12AA @' AB62' 23@' 8 ?2)' : >' L ' 3' 7625' 3 ' [56 ' >445' 23@' 4%% B> 3?=4%' 2 : @)-' $: ' CC ' ' 56 ' ; > ?65' 23@' 84>3 3?' 52>)' &4&, ⁄

! ' B4< 3' 4%' 2 ' : >9' #4@' 23@' : >9' 823)' 6 A ' ' M)' W ' @ ?3 59' 235 1 @ 35' ; 456' 54' ' 6 8 A 25 43' 23@' 54' ' C2A525 43.' &4&, ⁄ ' 2 8 B5 43' 4%' 56 ' 6 823' 325 >)' *463' ' /N ' 769' B ' 1 2>9)' &4&, ⁄ ' @ : 3 ' 23@' 6 823' 325 >)' *463' C : ' FL .' C : ' 3 43' 4%' 56 ' 574' 325 > ' 3' 8)' " < ' : ' FN .' *463' .' .' #2A ' : ' N .' * >' CC ' M .' 4 ' W ' B>4 : @' ; 456' #4@' 23@' 5623)' V 16 ' C ' / ' > 82>< ' 43' ' ; 3?' > B> 35 @' ; 9') 5 ' *463' 2 ' #4@' 23@' 823' 3' 43 B > 43)' / *463' ' /)' > 82>< ' 43' ' ; 3?' 12AA @' ['56 ' 823' 6> 5' *)-' / 8 ' ' 0 ' 56 ' 345 43' ?%' ' ; 3?' 2' 8 >' 823' 3148 B25 ; A ' 7 56' ' 4%% 1 ' 4%' .' @ 254>)' &4&, ' 23@' 7 56' 56 ' 2 >5 43 ' 4%' 56 ' 1> B5 > ' 1431 >3D 3?' ' @ : 3 ' 325 >)' &4&, ⁄ ' 6 823' 325 > ' ?A4> % @' 23@' C2A5 @' 3' 6 2: 3)' 15 ' C : ' / ' 647' ' C2A525 43 3' 56 ' 6 D 823' 325 > ' 8 BA @)' B6 ' ' F ' 76 3' 7 AA ' ; ' 56 ' % AA' 823 D % 525 43' 4%' 56 ' @48 3 43' 76 16' 2 ' 823' ' ' 21G > @)' / 4> 13 ' FN ' 7625' 7 AA' %4AA4 7 ' 56 > B43)' &4&, ' 3' 7625' 3 ' 7 3' [; ' ; + 15' 854' 8 ' 764' B 5' 2AA' 56 3? ' 3@ >' 8)-' : >' FL ' 56> ' @ %% > 35' 525 ' 4%)' B4 35 @' 4 5' ; 9' 5' 2 A)' 6 A ' ' 56 ' 56> ' 525 35 2A' 54' 56 ' B4 5A - ' 2>? 8 35)' &4&, ' 56 >' 8 5 2A' @ B 3@8 1 ' CBA2 3 @' 25' A 3?56)' &4&, ' 769' 84> ' B2>5 1 A2>A9' >5 1 2>9' 54' ; ' 3 5 @' 43)' &4&, ⁄ [

T T 4%% 1 ' 3@ 125 @' ; 9' 56 ' 328)' *463' ' N / ' 8 A%' 2' >4D B6 5)' 2 ' 7 AA' 2 ' 56 ' ;+ 15' 4%' B>4B6 19' 255 ' CC : ' / ' 54' ' 7625' 56 ' 6 ?6' B> 5' 72 ' 54' 56 ' >2 A 5)' ; ' : ' /N ' %% 15 ' 4%' ' 8 3 5>9)' &4&, ' 76 > 3' 148 B2> @' 54' 23' 2>43 @2A' B> 5)' ; ' 3 ' / ' 5 5 843 ' 54' ' @ 162>? ' 4%' 56 ' B> 5A9' % 3 ' 5 43)' ; ' C)' / F ' 234 35 @' 54' ; ' 4 >' ?> 25' ?6' > 5)' 255 ' P ' / 0 ' 4 >' ?6' > 5)' % A% AA @' 2AA' > ?65 4 3 ' 56>4 ?6' 56 ' 764A ' 4%' ' 21> @' % 315 43)' *463' C : ' FM ' ' 2BB 2>231 ' 3' 5 ' *463 - ' : 43' > 8 ; A 3?' 56 ' * 7 6' 6 ?6' EE> 5 ' $: ' / ' ' ; 4@9' ?A4> % @)' : >' /N ' ! 3?' 4 : >' 56 ' 764A ' 6 >16)' U < ' CCC : ' FF ' 5625' ' 72 ' 54' ; ' ! 3?' 473 @' ; 9' 56 ' * 7)' &4&, ' B>4 : @' 54' ; ' 2' ! 3?)' * >' CC ' 0 ' 234 35 @' 54' 56 ' 4%% 1 ' 4%' ! 3?)' *463' C : ' ' 7 6 3' 3 525 @' 3' 56 ' < 3?A9' 4%% 1 ' 4%' 56 ' 26)' 15 ' ' M ' ' < 3?@48 ' > 1 : @' %>48 ' 56 ' ' 2D 56 >)' $: ' : ' F ' 345' 4%' 56 ' 74>A@)' &4&, ' ; 5' 84>2A' 23@' B > D 5 2A)' " < ' C : ' F ' @ 1> ; @' 2 ' 2' % 2 5 ' $: ' ' F ' ' > ?65' 4%' @48 3 43' 4 : >' 56 ' 6 >16)' 4A ' ' / L ' 12> ' 4%' A ' 6 >16)' 1 ' 3 ' N ' 2AA' B47 >' ? : 3' 354' 8 ' 2%5 >' ' > >> 15 43' 3' ' 6 823' 325 >)' 255)' CC : ' / L ' ?4 : >3 ' 56 ' A > 6' ; 9' ' B>4 : @ 31 ' 23@' B > 5)' &4&, ' B>48 ' ' B> 31 ' 23@ B>45 1D 5 43' 54' 56 ' 6 >16)' : >' F ' ' B @9' 2@ : 35' 54' @ A : >' ' 6 >16)' $: ' ' / / ' ' 7 AA 3?3 '54' > 1 : ' 564 ' 764' 148 ' 54' 8)' : >' F ' ' A2 5' 23@' > 16 5' > 72>@' B>48 @' 54' 6 8' 5625' 4 : >148 56)-' : >' F / ' %% ' 148 3?' 54' 52< ' : 3? 231 ' 43' ' 3 8 '$: ' C C ' ' 7625' @ 345 @' ; 9' '[' 8239' 1>473)' : >' /F ' '< 3?A9' 4%% 1 ' ; G 35' 54' 56 ' B> 5A9' 23@' B>4 ' B6 5 1<' ' / ' ;456' ! 3?' 23@' > 5)' V 16 ' : ' / / .' * >' 111 ' F / ' > B> 35 @' 3@ >' 56 ' < 3?A9' 23@' B> 5A9' 162>215 >' 148 ; 3 @)' ; ' C ' /F ' @ 5 315 43' ; 57 3' ' 8 @ 254> 2A' < 3?@45B' 23@' ' 325 >2A' < 3?@4 3)' / 4>' C : ' FN ' 56 ' %4>8 >

2 K;1' IJ' I-;' 9M2 ,29.C' .II;ME

54' ; '@ A : > @' + '25'56 ' 3@' 4%'56 '74>A@i /' 4>'C: ' ''56 ' A255 >'3 : >'54' ; '@ A : > @' B)'&4&, ' 56 '43A9 5> ' @ 25 '23@' ! 3?'4%' ' 6 >16)' '1C ' ' 56>4 ?6' >2' 2A43 '7 ' 48 ' 354'56 ' '256 >)' *463'C : 'M ' B>29 > ' 23@'5623< ? : 3? '54' ; ' 4%% > @' 5A : ?6' 8)'$48 ' 'L ' 7 AA'6 > 2%5 >'2 8 '56 '162D >215 >'4%'2' * @?)' 2 ' ' 7 AA'2BB 2>'2 ' * @? '4%'2AA' 8 3)' ;456'G 1<' 23@' @ 2@)' *463' : ' FF'2 15 ' C ' NF.' C:3 'H +' 56 ' G 59'4%' #4@' 3' 4'2BB4 35 3?' 8)' *463', ' FF' @ 1> B5 43' 4%' '148 3?'54'+ @?8 35 '*4 6 ' : ' FM.' $: ' 'W' 23@'4%' ' 55 3?'43' '56>43 ' $: 'C ' //' 56 '62BB 3 '4%' 629 3?' >2' %4>' 4 >' * @?)=' 15 'C 'NF' A28 3525 43' 4%' 2AA' 4 ; 5 325 ' @4A25 > '23@'4BB4 > ' $: ' 'W

! '54' ; ' > ?2>@ @' ;456'2 ' 4 >' $ @ 8 >'23@' 4 >' C2 8 BA)' /' 5' ' F/ ' 3 1 59'4%' > ?2>@ 3?' 5>' 3' ;456' 162>215 >)' &4&, ' 4>5'4%'A % ' 7 6 16' ' 164)' 5 ' % A3 ' 2 '23' C2 8 BA)' ; ' ' / L.' 255 ' : F ' 2 ' ?> 25' 3' %% > 3?' 2 ' 3' 215 3?)' 2><' C : ' W' ' % C @)' @ B)' 23@' 143 5235'B 59)' " < ' : ' /M' ' > ?325 43' 54' 56 ' : 3 ' 7 AA' 255 ' CC : ' J' ' %> ' G 35' > 1 >> 31 ' 54' B>29 >)' " < ' : ' / M.' : ' /F' 3' 56 ' 2' B25D 5 >3' 54' 2AA' ' @ 1 BA)' &4&,+# ' %4>? : 3 ' 23@' 162> 59' 2' A 43' 54' 2AA' ' @ 1 BA)' " < ' CC ' N' 23' C2 8 BA ' 4%' 64A D 3 ' 23@' 4 ; @ 31)']'A ' W' 4%' 6 8 A 59' 23@' ; 8 43' 54' B2D > 35)' " < ' ' 0 / ' ' C2 8 BA ' 4%' 7 B 3?' %4>' 56 ' @ 2@)' *463' C ' 0' 'U 2A' %4>' 56 ' 6434 >' 4%' ' 6 2 : 3A9' '256 >)' 255) : ' / ' ' U 2A' 3' C 1 5 3?' ' 4%%1)' 23@' ' 4 ; @ 31 ' 23@' B >% 15' 143%4>8 59' 54' ' '256 >-' 7 A)' *463' : ' N.' 255 ' 11 'F ' ' ?> 25' ; 3 ' 43' 2>56' 2 ' @4 3?' ?44@' 15 ' v L ' 56 ' ; 3 :4A 31 ' 1%%' ' 162>215 >)' " < ' C ' 0M ' @ BA29 @' ' 3' 2AA' 6 ' 215 43 ' 23@' @ 14 > ' 255 ' C ' 0 ' ' 8 A@' 1431 D A 25 3?' B > 5 ' 255)' C .' /0 ' 23'28 2 ;A ' B 15 > ' 4%' ' 162>215 >) ' : >' / J)' F ' ' 143 8 825 ' B> @ 31 ' 255 ' : ' N ' ' 6 D 8 A 59' 23@' 4 ; @ 31)' *46A C ')' N)' W)' /N ' '2@6 > 31 ' 54' 5> 15' 8 B2>5 2A' + 5 1 ' 255 ' CC ' FL ' ' B> @ 35' 12 5 43)' *463' : ' /)' / ' @ ?3 59' 4%' ' 143@ 15' ; %4> ' A25)' 255)' CC: ' /N.' *463' C: ' LW' 23@' ; %4> ' >4@)' " < ' CC ' J' 'A4 : '%4>' ' 473)-' *463' C ' / ' 23C 59' %4>' ' B4D 5A ' 2% 59)' *463' C: ' L ' ' < 3@3 ' 54' ' B4 5A)' 23@' ' 6 8 A 59' 4%' B > 5)' " < ' CC ' FN)' FW ' ? 35A 3 ' 4%' ' > D ; < ' 54' 56 ' 574' 28 ; 54 ' @ 1 BA)' 2><' C ' J' ' ' 143@ D 1 3 43' 3' > 84 : 3?' 5' 6482 -)' @4 ;5)' *463' CC ' FW ' ' @ ?3 59' 23@' 8 A@3 ' 5472>@ ' 6 8)' : > ' ' 56 ' ? 35A 3 ' 4%' ' CB4 5 A25 43' 7 56' 5' 2 A)' 15 ' C ' N ' ' 2%% 15 4325 ' > ' P 148 8 3@25 43' B%' ' 8 456 >' 54' 5' *463)' *463' C C ' FW ' ' 8 A@3 '@ ' > % 5 3?' 56 ' : A' 8B 525 43 ' 4%' 56 ' * 7)' *463' : ' ' 2%% 15 43' %4>' 56 ' 74>A@)' 76 3' ' 29)' ' B>29' 345' %4>' 56 ' 74>A@)-' *463' C: ' J)' ' '162>215 >' > 845 '%>48 ' 2AA' 2 ' 5 >59 ' 255 ' C ' ' 23@' ' 43@ 15' 84 5'%4> ?3'%>48 ' 5625'4%' 23' 8B4 54>' 4>' 356 2 5)' : >' N ' 2 ' 72 ' 823)' 72 ' ;+ 15' 54' 6 823' 3% >8 5 ' 255 ' CC: ' ' 'B>29 >' 54' ; ' C1 @' .%>48 ' %% > 3?' 72 '34' @ B2>2? 8 35'4%' '4; @ 31 '54' #4@)' 4>' A4: '54' 823)' &4&, ' 2@:231 '4%' ' 6 823' 4 A' 3' B >% 15 43)' 6 '3 'L ' 6 7 '5625' '62@'56 ' 28 '325 >2A'% A 3? '2 '456 >' 8 3)' *463' C FW ' %> '%>48 ' 3' " : ' C: ' //' '%> @48 ' %>48 ' 3' 255 5 @)' / 5 ' 'FF ' 647 ' : >% @)' > 82><2 ;A ' 5 5 8439'4%' * @2 ' 12> 45'54' ' 3341 31 ' 255)' CC: ' N T ' ' '2@8 >2 ;A '7 @48'2 '2' 84>2A'5 216 >' 255 'CC 'N ' 56 ' B 1 A 2>' 8233 >' 4%' '5 216 3?' @ 1> ; @' 255 ' : ' F' 82>< ' 25'56 '4 5 5'4%' ' 8 3 5>9'56 'B 1 A 2>' 1A 2>215 >'4%' '> A D ? 43)' : > ' ' 56 ' B > 4 >' 8255 >' 23@' 8233 >'4%' '5 216 3?) ' 255 ' : ' FL =' 56 ' 3? A2>' 2 564> 59' 7 56' 76 16' ' 52 ?65)' : >' ' %% 15' 4%' 56 ' : 3 ' B47 >' 7 6 16' 2114 8 B23 @' ' 74>@)' *463' C: ' D# 5' 5 >= ' 21<347A @?8 35'4%' 56 ' C1 AD A 319'4%' '@415> 3)' 23@' ' : 3 ' 148 8 43)' *463' : ' ' 8 82>9' %' ^' 5 216 3?)' 23@' %4>1 ' 23@' @ ?3 59' 4%' 56 ' A23 ' ?5 2? ' 3' 7 6 16' 143 : 9 @)' *463' C ' F0 ' @ ?3 @' 54' 3 5> 15' 8 3' 3'56 >' @ 59)' *463' 'N ' 148 8 3 125 @' 54' 23' ?34>235' 23@' 7 1< @' 74>A@)' : >' 0' 56 ' > 2A @ 14: > >' 4%' 2AA' : 3 ' <347D A @?)' : >' J' '> A ? 43' 345' 84>4 ' 23@' 3 41 2A)' *463' ' ' @4 ' 345' ; 55 5 '% >:4 >'%4>' > ? A2>' 84>2A 59' ' 255' : ' ' @4 ' 345' 8 B>4B >A9' 14 >5'56 ' 255216 8 35' 4%' '%4AA47 >)' &4&, +# > %> 68 35' 2@8 3 5 > @' ; 9' ' @415> 3 ' 23@' 3 5> 15 43)' *463' : ' ' 2?> 8 35' 4%' '@415> 3 ' 7 56' 56 ' 84>2A' A27' 4%' 4)' %1 : ' / ' 2' 5 >2 ;A 3?;A41<'54' 8239)' 255)' C ' D# 56 ' 62BB 3 ' *' ' '7648 ' 5' '345' 4)' &4&, +

! ' 3% 55 @' % ' ' @ 25<8' 23@ 43@ 5 43 54 '143 : >5 ' å 74>A@' ; 9' 325 >2A' 8 23 9' 255 ' C ' 0N ' 14 A@' % ' 3456 3?' A ' ; 5'56 ' 43'4%' #4@)' &4&, ' B >%4>8 ' 8 >21A ' ; 9' '473' : 3 ' B47 >)' " < ' : ' /N ' ; 9' 2' : 3 ' B47 >' > @ 3?' 3' 8)' -<') : ' ' ' 11 ' 54' 7625' 54' ; ' 2 > ; @9' *463' : 5' 0' ' >21A

! 9 ' % > 5' B>4B6 19' > 14>@ @' 1431 >3 3?' ' 2BB>4216 3?' @ 256' 255 ' C : ' F / ' 769' ' > >: @' 56 ' @ 1A4 > ' 4%' 5' 5 AA' 56 ' 5 8 .' >%' B>4B6 ' '@ 256' 23@' > >> 15 43' 2' 143@ 5 8 ' 255 ' C : ' F ' B>4B6 ' 2' 56 >@' 5 8 ' > B 15 3?' ' @ 256' 23@' > >> 15 43 ' 255 ' CC ' ' B>4B6 ' 4%'= 0' > >D > 15 43' 3@ >' 56 ' % ? > ' 4%' 2' ?>2 3' 4%' 76 25=' *463' C)' FN' %4> D 5 AA ' '@ B2>5 > ' %>48 ' '@ 1 BA)' *463 :+ ' ' 'B>4D 8 ' 4%' 3?' 56 8' 2?2 3)' : > ' FF ' 56 ' 31431 :2 ;A ' ;A 3?' 4%' 56 ' %2 56% A' 3?' 8 ' 25' 56 ' A2 5' @29)' &4&, + 769' ; 2B5 U @' 3' *4>@23)' " : ' : ' 'M .' 255 ' /0 ' 769' > [1 81 @)' " < ' F/ ' 769' '@ > 15 @' '@ 1 BA '54' 1431 2A' 764' ' 72 ' 255 ' C : ' F ' 769' ' 3+4 3 @' 1> 19' 2%5 >' B >D %4>8 3?' ' 8 >21A)' 2><' ' NN.' : N .' : ' D# 769' 3' 43 ' 3 5231 ' ' 2@4B5 @' 2 '@ %% > 35' 14 >)' 2><' : ' / J ' 3' 7625' 3 ' 211 @' 4%' ; 3?' ; @ ' 8 A%)' 2><' ' F/ ' 3' 5:625' 3 ' ' 14 A@' @4' 34' 8 ?659' 74><' 3' ' 473' 14 35>9)' 2>< : '0' 769' ' 1431 2A @' 8 A%' %>48' 56 ' 8 A5 5 @ ' 2><' C ' 769' '@ 1A2 8 ' 2 564> 59' 2 ' 2' 5 8 B4>2A' 82? 5>25)' $8 C ' /N.' *463' : ' //' > 82>< ' 43' ' 2:2 A 3?' 8 A%' 4%' 6 ' ' 823' B> @ 31 ' 54' 2:4 @' @23? >)' " < 'C : ' F.' *463' : ' / ' 647' ' 6 7 '5625' '62@' B47 >' 54 > A 2 ' 8 A%)' " < ' CC ' 0/ ' ' 143@ 1 3 43' 3' : 5 3?' ' B 4BA)' *463' ' //' '> D + 15 43' ; 9' 56 ' * 7)' ' 84> ' B 1 A 2>' B 4BA)' &4&, +# ' > 7' 1 : 3?' 354' 2@4B5 43' 2AA' 5625' ; A : ' 3' 8)' : >' / F' 7625' 8 235' ; 9' '62: 3?' '@7 A5'28 43?')' % AA' 4%' ?>21 23@' 5> 56)-' : >' /N' > 82><' 43' ' 23 7 >' 54' ' 8 456 >' 25' 56 ' 82>> 2? ' 3' 232)' *463' 'N ' 647' 2@' 54' 62: ' 148 '@473' %>48' 6 2: 3)' 23@' 54' ; ' 3' 6 2: 3)' *463' ' /L ' 769' '@ 1A2> @' 8 A%' 4' BA2 3A9' 54' 56 ' 9162> 5 ' 748 23)' *463' : ' ' > 2 43' 4% 5A '@ D ?3' 4%' 56 ' B 4BA ' 54)' 82< ' 8 ' 2' 5 8 B4>2A' < 3?)' *463' : ' /0' ' @ %% 1 A59' 3' 16 1< 3?' 56 ' C1 ' 4%' 56 ' 8 A5 5 @)' &4&, +# > %A 15 43 ' 43' ' > % 3?' 343 ' 764' 148 ' 54' 8 ' 2 ' 5A >' 2D : 4 >)' : >' ' > 82><' 43' ' ;> 56> 3-' @ ; A %' 4%' 8)' *463 : ' 0' 3' 7625' 3 ' ' 4: >128 ' 56 ' 74>A@)' *30' M' &+# ' > D %A 15 43 ' 43' ' B>29 >)' 345' %4>' ' B4 5A ' 43A9)' ; 5' %4>' 2AA' 764' 64 A@' ; A : ' 3' 8)' *463' C: ')' F/)FN ' 56 ' %4>1 ' 4%' ' A2 5' 74>@)' ' 5' ' % 3 6 @)-' *463' C C ' ' > 82>< ' 43' ' @ 1A2>25 43' 4%' 56 ' ; A @3 ' 4%' 564 ' 764' 62: ' 345' 3' 23@' 9 5' 62: ' ; A : @)' *463' CC ' ' 56 ' 8 23 3?' 4%' ' 64A@ 3?' 56 ' : 3' 52> ' $: ' ' ' 2AA 43' 4%' ' 72A< 3?' 28 @ 5' 56 ' 123D @A 5 1<)' &4&, ' & ' 2 @' 54' ' 148 -' 43' 239' 3452 ; A ' 23@' AA 5> 4 ' 823 % 525 43' 4%' ' B>4 : @ 31)' $: ' CC ' ' ' B>48 ' 54' 148 ' B @ A9' 54' 21148 BA 6' ' B>4B6 1)' : >' ' ' @ ?3' 3' 148 3?' 354' 56 ' 74>A@)' " < ' C C ' / ' 148 3?)' 647' 34' 62>@ 6 B' 54' 564 ' 764' A : @' 4 *% ' 5)' / 4>' 13 'FF ' %4>' 7625' B >B4 ' ' 128 ' 354' 56 ' 74>A@ ' 5' ' /N ' B>215 12A' 2BBA 125 43' 4%' 56 '@415> 3)' &4&, +# ' 2' 148 843' ; 3 % 5' 54' 2AA' 56 ' 43 ' * ' , ' # 3 ' ' /0 ' %% > 3? ' 2BB4 35 @' %>48' 56 ' ; ? 33 3?)' &4&, ' ; 3 % 5 ' 4%' 56 8' 148 8 31 @' 25' 5625' 5 8)' &4&, ' Q , ' 2' 1 > '%4>')-' 8 B4>5' 4%' 56 ' CB> 43' AA 5>25 @' ; 9' 2' > % > 31 '54' 56 ' A27)' 5' CC F ' 56 ' B > 4> 59' 4%' '@ 256' 54' 56 ' 21> %1 '4%' 56 ' A27)' CA ' M' 56 ' ; A 3?' 4%' ' 8 3 5>9' 23@' 4%' 56 '> @ 8 B5 43' 82@ ' ; 9' 8)' " < ' : ' /L ' ' @ 256' %% 15 @' ; 9' ' 473' B > 8 D 43)' *463' C ' /L ' >4 '%>48' 56 '?>2 :)' 34' 8 4>)' 54' > 5 >3' 54' 14>D > B5 43)' 15 'C ' N' 56 ' C5 35 4%' 56 ' B2>@43' B >162 @' ; 9' ' ;A44@)' : >' J' 56 '"28 ;' A2 3' 3' : 3 ' B >B4 '%>48' 56 ' %4 3@25 43' 4%' 56 ' 74>A@' $: ' C ' L' 2' 2: 4 >' 54' 564 ' 764' 62: ' 3 : >' <3473' 8)' 15 ' C ' 0' 56 ' 8 > 5 ' 4%' ' @ 256' 345' 7 566 A@' %>48' 564 ' 764' 62: ' 345' 62@' 56 ' 4BB4>5 3 59' 4%' 12AA 3?' 43' ' 323+)' &4&, +# ' @ 256' 56 ' 43A9' B> 1 ' 4%' 823- '[2A:25 43)' $48 ' ' /N ' G 5 43' 1431 >3 3?' 56 ' 729 ' &0' 76 16' 56 ' 8 > 5 ' 4%' 5' 2> ' 2BBA @)' &4&, ' ; 3 % 5' 76 16' 5' 4 ; 52 3 ' %4>')' $48 ' : ' N ' 54' 5:625' 3@' ' @ 256' 23@' > >> 15 43' 7 > ' @ ?3 @)' $48 ' : ' F0 ' 647' 7 ' 2> ' 54' ; ' ; 3 % 5 @ ; 9' 5)' &4&, +# %% 15' 4%' ' 4 ; @ 31 ' 14 C5 3 : ' 7 56' 56 ' 143 G 31 ' 4%' @28-' @ 4 ; @ 31)' $48 ' : ' /N ' ?>21 ' 3' 8 ' 647' 5' C [1 @ @' 56 ' 143@ 8 325 43' 3' @28)' : >' ' ' 8 > 5 ' 14 C

= 8 35‘ ; 57 3‘ 56 8‘ 23 *‘ 6 256 3)‘ F‘ 4>.‘ : ‘ AN+‘ /M‘ 4 : ‘ G 35‘ 2@8 43 5 43‘ 2 ‘ 54‘ 56 >‘ %4> 8 3?‘ Z< 33 C 43)‘ &4&,+‘ 3 ‘ 143>2? @‘ 54‘ ; 3 :4A 31 ‘ ; 9‘ 56 ‘ C2 8 BA ‘ 4%‘ 6> 5)‘ F‘ 4> ‘ : ‘ ‘ 64 ‘ 56 9‘ 8 2< ‘ B>44%‘ 4%‘ 56 >‘ ; A43? 3?‘ 54‘ 6> 5)‘ # 2 "‘ : ‘ FN ‘ 3%A 31 @‘ ; 9‘ 57 4‘ 4BB4 3?‘ B> 31 BA)‘ : > ‘ ‘ 56 ‘5> 5)‘ 8 4 5‘ 35 5A @‘ 54‘ 4 >‘ A ; >2A 59 ‘ # 2A ‘ : ‘ / ‘ 3‘ 7625‘ > A2@43‘ 56 9‘ 523@‘ 54‘ 216‘ 456 >)‘ 6 A 8 ‘ : > ‘ ‘ 647‘ 52 ?65‘ 54‘> ?2>@‘ 56 >‘) 143@ 5 43‘ 3‘ 56 ‘ 74>A@)‘ ; ‘C ‘ /N ‘ 4%‘ 7625‘ 41 59‘ 54‘ 143 @ >‘ 56 8 A: ‘ 2 ‘ 8 8 ; >)‘ &4&,‘ 7625‘ 64 A@‘ ; ‘ 56 >‘ 31A 325 43 ‘ 23@‘ 143@ 15‘ 2114>@ 3?A9)‘ &4&,‘ 8 B4>5231 ‘4 %‘ 56 >‘ 14 8 8 43‘ 3 ‘) 5 > 5)‘ ; ‘C ‘ H+ 7625‘ %B 15 ‘ 5‘ 64 A@‘ B>4@ 1)‘ &4&,+ 56 ‘ ; 5)‘ 7625‘ 56 9‘ 523@‘ 3‘ 3 @‘ 4%)‘ F‘ 5 ‘ + ‘ / ‘ ; 9‘ 7625‘ 8 23 ‘ 56 9‘ 8 29‘ @ > : ‘ 14 8 %4>5‘ %>4 8 ‘ 56 ‘ B>4 B 15‘ 4%‘ 6> 5- ‘ 14 8 3?‘ 54‘+ @? 8 35)‘ F‘ 5 ‘ ‘ /F)‘ 31 >)‘ 14 8 B2> @‘ 54‘ 62@>216)‘ Q1 ‘ 23 ‘ A ‘ ‘ 5>)‘ C64>525 43 ‘ 23@‘ B> 8 ‘ 54‘ 56 8 ‘ $: ‘ C : ‘ 56 >‘ 43?‘ ; %4> ‘56 ‘56>43)‘ : > ‘ / T ‘ 7 6 9‘> B> 35 @‘ 2 ‘ : >? 3)‘ : > ‘ N ‘ 7 564 5‘%2 A5)‘ : >)‘ j+ 564 ‘ 7 6 4‘ 2> ‘ 8 > A9‘ 34D 8 32A)‘ 255 ‘ C ‘ FF ‘ B>4% @‘ ; 5‘ 345‘> 2A)‘ 12AA @‘ B43‘ 54‘ 143 ‘ 2 @ >‘ 56 >‘ 5 25 43 ‘ $: ‘ ‘ / 0 ‘ @ 4 ; @ 35)‘ 8 4> ‘ 1> 8 32A‘ 5A 23‘ 231 35‘ * 7)‘ U < ‘ CC ‘ ‘ 3% A)‘ 56 ‘ 7 4> 5‘ 4%‘ 33 >)‘ $4 8 ‘ ‘ ‘ > 6> 5 23 ‘ 4%‘ 56 ‘ $4 8 6‘ 6 >16‘ @ @‘ 345‘ 52< ‘ 7 2>3 3?‘ %>4 8 ‘ 56 ‘ + @? 8 35 ‘ 3%A 15 @ ‘ $: ‘ C ‘)‘ F / 6> 5 23 59)‘ 5 ‘ @@ 3‘ 31> 2 ‘ @ 1> ; @ ‘ ‘AC ‘ ‘ 5 ‘ % > 5‘ 52 ‘)‘ ; A 6>3 35‘ 54‘ ; ‘ 255 3@ @‘ 7 56‘ 4BB4 5 43‘ 23@‘ B > 1 5 43 ‘ 255 C)LN)‘ H>+ 5 ‘ 8 >21 A4 ‘ B>4B2?25 43‘ 7 56‘ : ; A ‘ 8 23 ‘ 7 6 4AA9‘ @ B>4B4>5 43 25 ‘ 23@‘ 3‘ 4BB4 5 43‘ 54‘ 56 ‘ > ?3 3?‘ B> + @ 1 ‘ 23@‘ B2 43)‘ 2‘ 8 4 5‘ 143 : 31 3?‘ B>44%‘ 4%‘ 5 ‘ : 3 ‘ 4> ? 3)‘ $ ‘%A 15 43 ‘ 25‘ 56 ‘ 3@‘ 4%‘ 56 ‘ 15 T 5 ‘ B>4B2?25 43‘ 3@ >‘ 8 239‘ B 1 A 2>‘ 1 >1 8 5231 ‘ 2 B>44%‘ 4%‘ 5 ‘ : 3 ‘ 4> ? 3 ‘ 15 ‘ : ‘ L ‘ 5 ‘ > + 15 43‘ ; 9‘ 56 ‘ * 7 ‘ 34‘ : 2A @‘ 4 ; + 15 43‘ 54‘ 5 ‘ 5> 56)‘ 2><‘ 1 3 ‘ LF ‘ 62@‘ ; 3‘ CB> A9‘ %4> 54A@)‘ ; @)‘ 43 ‘ 4%‘ 56 ‘ 8 23 ‘ ; 9‘ 7 6 16‘ 5‘ 72 ‘ B>4B2?25 @ ‘ 4> ‘ : ‘ / ‘ BB4>5 @‘ ; 9‘ 56 ‘ 8 D B2>5 2A 59‘ 4%‘ 5 ‘ 6 54> 23 ‘ # 2A ‘ ‘ ‘ B>4 : @‘ 54‘ ; ‘ 345‘ 23‘ 8 D B4 5 >)‘ ; @)‘ B 1 A 2>‘ B> 8 B5 43‘ 3‘ %2 : 4 >‘ 4%‘ 5)‘ ‘ 6 ‘ : ‘ 56 ‘%2 >‘ 5> 25 8 35‘ 54‘ 7 6 16‘ 5‘ ‘ 35 5A @)‘ ; @ ? 3 3)‘ 5 ‘ 5> 8 B6‘ 4 : >‘ B > 5 5 43‘ 23@‘ @4A25>9)‘ 23@‘ 56 B4 7 > ‘ 4%‘ 235 16> 5 ‘ $: ‘ C C ‘ / J T‘ ; >‘ @ 59‘ ?> 25A9‘ C2A5 @‘ ; 9‘ 5 ‘ 255 ‘ : ‘ F / ‘ 2AA4 7 ‘ 56 ‘)‘ 345‘ 56 ‘ 2 ;)‘ 4%‘ ?44@‘ 56 3? ‘ 255 ‘ : ‘ HH+ & ‘ B > 5‘ 8 A@‘ 23@‘ B 21 2 ; A)‘ " < ‘ C ‘ 00 ‘ ; 3 :4A 31 ‘ 5 ‘ 8 2 3‘ 162>215 > 5 1<)‘ *463‘ C ‘ YN ‘ 5 ‘ BB4 5 43‘ 54‘ 2AA‘ @4A25>4 ‘ 1 548 ‘ 15 ‘ C : ‘ ‘ @4 ‘ 345‘> G > ‘ ‘54‘>445‘ 4 5‘ 325 >2A‘ 2%% 15 43)‘ ; 5‘ 54‘> ? D A25 ‘ 56 8 ‘ 15 ‘ CC ‘ / ‘ 7625)‘ 2114>@ 3?‘ 54‘ 5 ‘ 2 A)‘ 5‘ 143 5 ‘ 3)‘ $4 8 ‘ C : ‘ ‘ 7625‘ 56 ‘ 3@‘ 4%‘ 5)‘ ‘ 4> ‘ : ‘ W‘ C64>525 43‘ %4 3@ @‘ B43‘ 5)‘ &4&,‘ B>4% 43‘ 4%‘ 5‘ 3148 B25 ; A ‘ 7 56‘ 2‘ 525 ‘ 4%‘ 3)‘ ‘ 4> ‘ : ‘ ‘ %2 A59‘ B>4% 4> ‘ 4%‘ 5)‘ 7 6 > 3‘ 56 9‘> 8 D ; A ‘ 56 ‘ >2 A 5 ‘ 4%‘ 4A@)‘ 4> ‘ C ‘ ‘ 2@ : 2352? ‘ 4%‘ 5‘ ; > %A9‘ 525 @)‘ B6 ‘ ‘ W ‘ 32 ; A 59‘ 4%‘ 56 7> 5 > ‘ 4%‘ 56 ‘ 7‘ 52 8 35‘ % AA9‘ 54‘ CB> ‘ 3 A&4&,‘ 56 >‘ B>4B >‘ %% 15‘ 43‘ 2AA‘ ?44@‘ 6> D 5 23)‘ &4&,‘ & ‘ B> 1 B5 ‘ 123345‘ ; ‘ > 4 A9‘ 564 ?65‘ 4%‘ 7 564 5‘ > %A 15 3?‘ 6434 >‘ 43‘ 56 ‘> A ? 43)‘ 6 A ‘ : ‘ ‘ 5 ‘ ? 3 >2A‘ 14B ‘ 23@‘ 2 8 ‘ 5 ‘ ‘) ‘ 34‘ > A2C25 43‘ 4%‘ 56 ‘ 4 ; A ?25 43 ‘ 4%‘ 56 ‘ A27 ‘ 54‘ ?4@A 3)‘ &4&,‘ 7625‘ 74 A@‘ ; ‘ 5 ‘ %% 15‘ %‘ B >% 15A9‘ 4 ; 9 @ ‘ 5‘ ‘ ‘ 5 ‘ 215 2A‘ %% 15)‘ &4&,‘ ; A 3? ‘ 4%‘ 5)‘ 3‘ 7625‘ 57 4‘ : 7 ‘ 56 9‘ 8 29‘ ; ‘143 @ > @)‘ ; ‘ C ‘ +‘ & ‘ %% 15 ‘ 43‘ 1 : A‘ 41 59)‘ / 5 ‘ ‘ /L ‘ B>4% 4> ‘ 4%‘ 5)‘ 7625‘ 56 >‘ ?> 25‘ @ 59)‘ ‘ *463‘ ‘D+ 7625‘ 5‘ %4>56‘ ; 9‘ 5‘ *463‘ 2 ‘ 5 ‘ 12>@ 32A‘ @415> 3)‘ ‘ *463‘ :)‘ ! + ‘ ;44< ‘ 4%)‘ 255> ; 5 @‘ 54‘ U>2‘ 2 ‘ 56 >‘ 2 564>)‘ 35>4@ ‘ 54‘ ‘ 6>43 ‘ 56 >‘ ? 3 >2A‘ 1435 35)‘ 56 ‘ : 7 ‘ 7 56‘ 7 6 16‘ 56 9‘ 2BB 2>‘ 54‘ 62: ‘ ; 3‘ 7> 55 3)‘ 23@‘ 56 >‘ 2 564> 59)‘ &4&,‘ 56 9‘ BBA9‘ 8 239‘ *6 3?‘ 4 8 55 @‘ 3‘ 56 ‘ 456 >‘ 6 54> 12A‘ ; 44<) / 6>43 ‘ CC ‘ .‘ 35>4@ ‘ 54‘ ‘ 6>43 ‘ 56 ‘ 2 564>‘ 4 8 5 8 ‘ 8 > A9‘ 1 5 ‘ %>4 8 ‘ 56 ‘ ; 44<‘ 4%‘ ! 3?)‘ ‘ 6>43 ‘ : ‘ % > 5‘ ; 44<‘ 4%)‘ 7 6 9‘ 5‘ ; ? 3 ‘ %>4 8 ‘ 56 ‘ 1> 25 43)‘ / 6>43 ‘ ‘ 7 6 9‘ 6 56‘ 43A9‘ ‘ 8 35 43 @‘ 4%‘ 56 ‘ 43 ‘ 4%‘ @2 8)‘ &4&,+ T T‘ 143@‘ ; 44< 4%)‘ 5 ‘ 1435 35)‘ 35>4@ ‘ 54‘ ‘ 6>B3 ‘ 5‘ % >3 6 ‘ 8 239‘ B2>5 1 A2> ‘ 4 8 55 @‘ 3‘ 56 ‘ 56 >‘ 6 54> 12A‘ ; 44<)‘ &4&,+ 7 6 9‘ 5 ‘ 57 4‘ A2 5‘ : > ‘56 ‘ 2 8 ‘ 2 ‘ 564 ‘ 7 6 16‘ ; ? 3‘ 56 ‘ ; 44< 4%‘ U>2)‘ F‘ 6>43 ‘ CCC : ‘ FF ‘ CB> 43 ‘ 3‘ 5‘ 14 8 B2> @‘ 7 56‘ 2‘ B2 2? ‘ 4%‘ 5‘ 2 A)‘ # 2A ‘ : ‘ 2 564>‘ 4%‘ 56 ‘ ;44< ‘ 4%)‘ 14AA 15 @‘ 8 239‘ 56 3? ‘ %>4 8 ‘ 456 > 7> 5 >)‘ ‘ 6>43 ‘ C ‘ FJ

6>4>21A ‘ 4%‘ 56 ‘ < 3? ‘ 4%‘ > 5 A)‘ 7 625‘ 35 3@ @)‘ / ! 3? ‘ : ‘ ‘ 6>434A4?9‘ 4%‘ 56 ‘ < 3? ‘ 4%‘ >2 A‘ 23@‘ * @26)‘ 647 ‘ @ %% A5 2‘ 5 8 29‘ ; ‘ ? 3 >2AA9‘ 4A: @ ‘ F‘ ! 3? ‘ C : ‘ + ‘ 7 6 > ‘ > 5 25 @)‘ U < ‘ CCC ‘ H ‘ ‘ 6 >16)‘ 7 625‘ 56 ‘ 1> B5 > ‘ 7 4>@‘ 4> ? 32AA9‘ ?3 %)‘ ; ‘C% ‘ F ‘ 5 ‘ > ?3 % 125 43‘ 3‘ 56 ‘ & ; A)‘ &4&,‘ 7 625‘ 56 ‘ 6> 5 23‘ ‘54‘ A 2>3‘ %>4 8 ‘ 56 ‘ @ 1> B5 43‘ 4%‘ 5)‘ : > ‘ FN ‘ B >< @‘ 3 59‘ * ‘ 5 ‘ > B> D 35 @)‘ ‘ 1CCC ‘ H+ ‘ %% 3@ >‘ # 4@- ‘ B > 35 3@ 31)‘ 56 : ‘ ! G 2‘ 1431 >3‘ %4>‘ 56 ‘ 7 A%2> ‘ 4%)‘ 4 >‘ @ 59)‘ ‘ CC ‘ M‘ % @ A 59‘ 54)‘ 5 ‘ 1 8 C 43‘ 7 56‘ % @ A<9‘ 5 j‘ 56 ‘ < 3? ‘ 8 ; ‘ : ‘ / F ‘ 4%‘ 6> 5‘ B> % ? > @)‘ ‘ C : ‘ J)‘ / N ‘ 647 ‘ 54‘ ; ‘ 143 @ > @) : > ‘ ‘ # 4@- ‘ A4 : ‘ 54‘ 5)‘ ‘ CA: ‘ ‘ %% > ‘ % > 5 ‘ %>48 ‘ 5> 2D 16 >9‘ 4%‘ B> 5 3@ @‘ %> 3@)‘ ‘ : ‘ / F ‘ CB4 @‘ 54‘ B > 1 543)‘ ‘ CC : ‘ F ‘ 7 AA‘ ; ‘B 3 6 @‘ %‘ 6 ‘ 3)‘ ‘ CCC ‘ ‘ 4 >‘ @ 59‘ 54‘ B>29‘ %4>)‘ ‘ CCC : ‘ W‘ B>4B6 19‘ 4%‘ .‘ ‘ FM .‘ ‘ N‘ B>4 ‘ 5 15 @ ‘ ‘ : ‘ 0 ‘ 12AA @‘ 2‘ : 3 92>@ ‘ ‘ : ‘ / ‘ 2BBA 125 43‘ 54)‘ : > ‘ 5 ‘ B>4 B > 59‘ %4> 54A@ ‘ ‘ C ‘ / .‘ @@ 3‘ 31> 2 ‘ 4%‘ 5‘ %4> D 54A@)‘ ‘ C : ‘ ‘ 8 235‘ ; 9‘ * > 2A 8)‘ * >‘ ! +‘ 0 *‘ @ 5 315 43‘ 3‘ 5‘ 4%‘ ‘6‘ 23@‘ # 35 A ‘5 ;> 6 73)‘ U < ‘ CA: ‘ /N ‘ 5 ‘ 525 ‘ 3D @ >‘ 56 ‘ 6 256 3‘ $4 823‘ 8 B >)‘ @ 1> ; @‘ 3@ >‘ 56 ‘ C‘ % > 5 2A)‘ $: ‘ : ‘ / ‘ 54‘ ; ‘ 59>233 U @‘ 4 : >‘ %4>‘ NF+ 84356 ‘ $: C ‘ F ‘ 56 ‘ 56 ‘ 28 ‘ B > 4@‘ 2 ‘ / FM ‘ @29)‘ &4&,‘ > B> 35 @‘ 2 ‘ ; 2> 3?‘ 1A A@> 3‘ 54‘ 6> 5)‘ $: ‘ C ‘ /) F ‘ 56 ‘ 8 23 3?‘ 4%‘ 56 ‘ 9 8 ; 4A ‘ 8 35 43 @‘ : 2> 4 A9‘ 143+ 15 > @)‘ &4&,‘ 6 >‘ 8 23‘ 16 A@‘ CBA2 3 @)‘ : > ‘ 0 ‘ 143 4A25 43 ‘ 23@‘ B>4 8 ‘ 54‘ 5 ‘ $: ‘ C U+ 59A @‘ 5A ‘ ; > @ ‘ 4%‘ 6> 5)‘ $: ‘ C C ‘ W ‘ 62 .‘ B > ‘ 23@‘ 8BA ‘ 255 >)‘ : > ‘ L ‘ > B> 35 @‘ 2 ‘ 2‘ ; > @ ‘ $: ‘ CC ‘ J ‘ 5j ‘ B > ‘ 23@ B> 8 5 : ‘ 4> 6 B‘ > B> 35 @)‘ %+ : ‘ ‘ 1255 > @‘ 2 ; >42@‘ 15 ‘ : ‘ / ‘ 56 ‘ %% 15‘ 4%‘ 56 ‘@ B > 43)‘ &4&,‘ % > 5‘ @ : 43 ‘ 3‘ 5 ‘ 15 ‘ , ‘ / ‘ 5>43?‘ 14AA25 >2A‘ : @ 31 ‘ 4%‘ 56 ‘ 5> 56‘ 4%‘ 56 ‘ #4 B A‘ %>4 8 ‘ 56 ‘> A25 43‘ 4%‘ 56 8)‘ : > ‘ F #4@- ‘ 12> ‘ 4%‘ 5‘ 23@‘ @ B 3 25 43 ‘ 547 2>@ ‘ 5)‘ *463‘ C : ‘ /)F ‘ 6> 5- ‘ 3 43‘ 7 56‘ 56 ‘ 8 8 ; > ‘ 4%‘ 5)‘ : > ‘ N.‘ # 4@‘ 54‘ ; ‘ 4 ; 9 @ 3‘ 5)‘ 23@‘ 345‘ 8 23 ‘ 255)‘ CC ‘ LT / ‘ 5 ‘ 2 A- 148 B2> 43‘ 4%‘ 5‘ 54‘ 56 ‘ 325 >2A‘ ; 4@9‘ %A 5>25 @)‘ / 4> ‘ C ‘ /N)‘ Q1 ‘ B>215 12A‘ > %A 15 43 ‘ 43‘ 5)‘ : > ‘ F0 ‘ 2AA‘ 56 ‘ 8 8 ; > ‘ 4%‘ 5‘ 8 2< ‘ 43 ‘ ; 4@9)‘ / 4> ‘ C ‘ / F ‘ 3‘ 7625‘ B2>5 1 A2> ‘ 56 ‘ ; 4@9‘ 4%‘ 6> 5)‘ B6 . F ‘ 8 C5 > ‘ 4%‘ ?44@‘ 23@‘ ; 2@‘ B > 43 ‘ 3‘ <‘ AA 5>25 @)‘ F‘ 8 //‘ F ‘ B>215 12A‘ 1431A 43‘ %>4 8 ‘ 5)‘ &4&,‘ 2‘ > % ? ‘ 54>‘ 3 ‘ B 3 ‘ 58 5)‘ # 3 ‘ C C ‘ FF ‘ B>4 8 ‘ 4%‘ 52 ; A 59‘ 54‘ 5 ‘ 255 ‘ C : ‘ \+ 8 2@ ‘ 54‘ 56 ‘ 6 >16‘ 3 : > 2A)‘ 345‘ 54‘ B2>5 1 A2>‘ 6 >16)‘&4&,+ 3‘ 7625‘ 3)‘< 9 ‘ 4%‘ 5‘ ? : 3‘ 54‘ 5‘ 5 >)‘ : > ‘ + 34‘ B> D 8 219‘ 3‘ 5‘ ? : 3‘ 54 6 8)‘ : > ‘ / L)‘ ‘ 7 6 9‘ 2 @‘ 54‘ ; ‘ ‘ 56 ‘% AD 3 ‘ 4%‘ 8 ‘ 5625‘ % AA 56‘ 2AA‘ 3‘ 2AA)-‘ B6 ‘ ‘ F T ‘ 52 ; A 6 @)‘ 7 ‘ 2> ‘ ; 4 8 ‘ 54‘ +4 3‘ 5‘ 7 6 3‘ 7 ‘ A2 7 % AA9‘ 123)‘ $4 8 ‘ C : ‘ B> 8 5 : =‘ 54‘ 7 625‘ < 3@ ‘ 4%‘ 2 %A 15 5 3 ‘ ? ; + @5 ‘ *2 8 ‘ ‘ F T T ‘> @ 8 @)‘ 56 ‘ ; A 3? ‘ 4 ; 52 3 @‘ %4>‘ & ‘ ; 9‘ 6> 5- ‘ ; A44@) ‘ $: ‘ : ‘ /N ‘ 5 ‘ % 5 > ‘ 62BB 3 ‘ % ? >25 : A9‘ @ 1> ; @)‘ : > ‘ / 0 4%‘ * > 2A 8)‘ 62@‘ 56 ‘ 56> ‘4>@ > ‘ 4%‘ 8 3 5 > ‘ 15 ‘ CC ‘ / L @ % > 31 ‘ B2 @‘ 54‘ 5‘ 3‘ B4 5A -‘ 5 8)‘ U < ‘ C : ‘ ‘ 4%‘ $4 8)‘ 2 8 ‘ 3+ 5A9‘ 56 ‘ 5 5A ‘ 4%‘ 8 456 >‘ 4%‘ 2AA 16 >16)‘ U < ‘ C : ‘ ‘ > 8 2><‘ 43‘ 3 %‘ (‘ 5 8 25 ‘ 4%‘ 5‘ 5 >- ‘ >23<)‘ / 5 ‘ : ‘ / ‘ 3 5231 ‘ 4%‘ B > 5 5 43‘ 7 <6 ‘ > B 15‘ 54‘ BA21 ‘ 4%‘ 74> 6 B‘ 8 ;)‘ MM&&&+ FW ‘ 6 >‘ @ B2>5 > ‘ %>4 8 ‘ 56 ‘ 5> ‘ 6> 5 23‘ 74> 6 B)‘ F‘ 3 +‘ &&&‘ + 143@ 8 3 @‘ %4>‘ 74> 6 BD B 3?‘ 23? A)‘ 2 35)‘ 8 2?)‘ ;43)‘ Q1 ‘ 4A ‘ ‘ /L ‘ 6 >‘ 3 1> B ‘ 5 >2A‘ 143@ 15‘ 3‘ 74> 6 BB 3?‘ %2A ‘ 8 @ 254>)‘ 23@‘ @ B2>5 3?‘ %>4 8 ‘ ‘ 6> 5‘ 4 >‘ 43A9‘ @ : 4125)‘ / - 8 ‘ ‘ > ‘ 6 >‘ @4A25>9‘ 7 69‘ 54‘ ; ‘ 2114 35 @‘ L3‘ 2B4 52 9)‘ / 8 ‘ : ‘ / ‘ > 8 2>< ‘ 43‘ 56 ‘ %4> 8 ‘ 4%‘ 5)‘ &4&,‘ 4 / ‘ 7625‘ 8 23 ‘ 23@‘ B > 43 ‘ B>4B2?25 @)‘ : 5 ‘ F ‘ 6 >‘ 8 B 4 ‘ 23@‘ 2 ; >@‘ A2 7 ‘ 7 56‘ > B 15‘ 54‘ 56 ‘ A23? 2? ‘ 4%‘ B ; A 4< 74> 6 B)‘ / 4> ‘ C : ‘ / ‘ 1 3 > ‘ 43‘ 6 >‘ > G > 3?‘ 2‘ ; A 3@‘ 23@‘ 8 BA 1 5‘%2 56‘ 4%‘ 6 >‘ 8 8 ; > ‘ 15 ‘ C : ‘ ‘ 1 3 > @‘ %4>‘ 29 3?‘ 8 239‘ 56 3? ‘ 7 6 16‘ 123345‘ ; ‘ B>4 : @‘ %>4 8 ‘ 1> BD 5 >)‘ 4A ‘ / L ‘ > 8 2><‘ 43‘ 6 >‘ B> % > 31 ‘ 4%‘ 5>2@ 5 43 ‘ 4%‘ 34‘ : 2A)‘ F 6 ‘ /0 ‘ 6 >‘ >>4 >‘ 7 56‘ > B 15‘ 54‘ 8 2>> 2? ‘> 8 2>< @)‘ / 4> ‘ : F ‘ 6 >‘ 4B 3 43 ‘ 7 56‘ > B 15‘ 54‘ 56 ‘ 1 A ; 219‘ 4%‘ 56 ‘ 1A >?9)‘ / 8 : ‘ H+ 5> 15 > ‘ 43‘ 6 >‘ @ 415> 3 ‘ 2 ; 4 5‘ 56 ‘ 1 A ; 219‘ 4%‘ 56 ‘ 1A >?9)‘ / 8 ‘ ‘ F ‘ > 8 2>< ‘ 43‘ 6 >‘ 14 8 8 23@ 3?‘ 54‘ 2 ; 52 3‘ %>4 8 ‘ 8 25)‘ / 8 ‘ : ‘ ‘ 6 >‘ 3 1> B5 >2A)‘ 2 ; >@)‘ 23@‘ 8 D B 4)‘ ; ‘ C ‘ ‘ 3 1> B5 >2A‘ 23@‘ 2 ; >@‘ 3‘ 6 >‘ @ 415> 3 ‘ 4%

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6> 5 23)' 2AA' 3 6 ')56 ' C64>525 43 ' ? : 3' 54' 56 ' : 3' 16 >16)' $: ' ' N'

<1 81 43)' 2' ?3' 4%' # 4@- ' 14 : 3 8 5' 7 56' ' B 4BA)' # 3 ' C : ' ' 5 ' 2@ : 2352?)' &4&,+' 7 69' % 5A9' 164 3)' @ ' 43 ' ?> 25' 3@ 4%' 5)' &4&, ' ; 4>>4 7 @' ; 9' 56 ' ?9B5 23)' &4&, ' 7 69' B>215 @' ; 9' 56 ' 6 8 2 A 5 ' 25' 2' A25 >' 2? ' 5623' ; 9' 56 ' * 7)' , >' /F)' 2' 59B ' 4%' ; 2B5 8)' 6 @ ' 7 625)' 3 5> 8 >55 @' %4>' 5)' C4@ ' : ' F0 ' 7 625' 5' ; 54< 3)' " : ' CC : ' N / ' B6>2 4A4?9' %4 3@ @' B43' 5)' &4&, ' 7 625' 5' 7 2 ' 35 3@ @' 54' 5 216)' 5 ' C ' ' 7 69' 56 ' > 5 ' 7 2 ' 4 8 55 @' ; 9' 56 ' >2 A 5 ' 3' 56 >' 7 23@ > 3?' 525 ' * 4 6 ' : ' 5 ' 8 4>2A' 8 B4>5)' * >' : ' N ' 7 625' ' 5' 62@' 54' ; >2628) ' $4 8 ' : ' ' 21>2 8 35' 4%' 3 5 25 43' 354' 56 ' 5> ' 6 316' 23@ %2 56' 3' %4>8 >' 5 8)' $4 8 ' ' FL ' B > 5 2A' ?>21 ' % ? > @' ; 9' 5)' &4&,+ 54' 7 625' 56 ' * 7 ' 4 ; A ? @' 56 8 A: ' ; 9' 5)' # 2A' : ' ' 7 69' 56 ' * 7 ' 56 3' 3 2 8 @' 56 >' 16 A@> 3)' " < ' ' 0 J ' 7 69' 4 >' " 4>@' 7 2 ' 1 >1 8 1 @)' " < ' ' ' 3 1 59' 4%' 6 8 5 3?' 23' 2 >5 43' ' 1431 >3 3?' 5 ' # 2A ' : ' .

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5' 43' 2' 6 AA)' 143+ 15 > ' > B 15 3?' 2' B2>5 1 A2>' 1 =' 2AA @ @' 54)' 255 ' : ' /N'

A 5)' 7 69' @' 3' 56 ' BA >2A' %4>' * > 2A 8)' ' C : ' / ' 7 625' 4>5' 4%)' 35 3@ @)' 1 ' : ' /N ' < 3?@4 8 ' 3%A 31 @' ; 9' 56 ' B > 5' 4%' 56 > B> 31 B2A' 1 5)' 1 ' "' 0 ')

TT ' 4%' 56 ' 8 4> 5)' 3' 7 625' 3 ' 2 @' 54' A ' ; 3 <' ; 9' 56 ' # 2@ 5)' 8 ;)' CCC ' HY# B>4 ; 2 ; A ' > 2 43' 4%' 56 ' 1623 ? ' 4%' 4 8 ' 4%' 56 >' 328)' : > ' H\+

[3 2>' >2 ; 2)' > 8 2><' 43' 56 ' 6 ?65' 4%' 56 >' 72AA)' 5' ' FL ' T> T 7 6 16' 2> ' 12AA @' : >? 3)' * > ' C : ' /W

> % ?)' 7 64 8' 56 9' B>45 15 @' 8 ; ' CCC : ' ' 34' B>4 ' 5 15 432?2 3 5' + 5 1)' &4&, ' 7 625' B>45 15 43' 56 9' 2%%4>@ @' 54' 56 ' 8 23 A29 >)' 5' : ' NF ' 6 ' > @ 31 ' 56 > 3' 2' 4>5' 4%' B 3 6 ' ' 8 35)' &4&, ' A2 7' 1431 >3 3?' 5A ' >42@ ' A 2@ 3?' 54' 56 8)' 5 ' C C ' PF' 7 @4 8' 4%' 4 ' 3' 52 ; A 6 3?' 56 8' 255 5 @' ; 9' 43D 5 G)' 5 ' C C ' N ' 23' 2AA 43' 54' 56 8)' ; ' : ' /L ' A : A' 2 564> 59)' ; 8 43' 54' 5' 2@ 8 >2 ; A9' 3%4>1 @' ; 9' 6> 5)' 255 ' CC ' ' 5 ' B >% 15' 143 5 319' 7 56' B 4 ' 64 8 2? ' 54' #4@)' &4&, &' ! & ' @415> 3 ' 3' 56 ' B2>5 1 A2>' 7 @ A9' @ %% > 35' %>4 8 ' 5625' 4%' 356 2 5)' 56 @ ' ' #4: >34 >

T ' 143@ 5 43 ' 4%' 8 3)' 2A5 >25 43 ' 3' 56 8' 345' 35 3@ @' ; 9' 6> 5 23 59)' 35>4@>' 54' 6 A 8 4 ; A ?25 8)' 345' > A2C @' ; 9' 6> 5 23 59)' ' 4>' : ')' F ' RR2B' 56 ' 623@)' ?3' 4%' 8 2A ?3235'+49 ' *4 ;' CC : ' F ' =" ' A23@)' 5 ' 328 @ %% > 35A9' ? : 3 ' 15 ' CC : ' ' 9")' $4 8 23' 8 B >43>)E' 6 ' 5> 25 8 354%' 56 ' * 7)' 647' 34D 5 1 @' ; 9' 543 ' 23@' 4)' >5 ' C : ' 29' @ %4>' 2A 3?' 3' 56 ' 2 5)' *4 ;)' CCC : ' /N ' %4>' ?4A@' 23@' A: >)' 2 ; ' ' ' ' ' ') '

A 233 ' 4%' 623@ ' @' % ? >25 : A9)' /' 8 [' L + ' 2114 35' 4%' 6 8 ' 3' 56 ' 231 35' 6> 5 23' 7 > 5 >)' 6 A) , ' ' ' ') ' ' ' ' P' i ' [' [A 8 25)' 2 5 >3)' C1 : ' @ ?> ' 4%' 6 25' \23@' 14A@)' # 3 ' CC N ' P' (' A4< ' 4%' 14 : 54 3)-' 7 625' 56 ' B6>2 ' @ 345)' / 6 ' 3 ' 0) 7 69' 5)' 2 A' 2BB 2A ' 54' # 4@' %4>' 6 ' ; 3?' %> ' %>4 8' B : 545 ' 3)' &4&,+' A P' ' ' ' ' ' [' 4%' 82A 1 4 3 -' CBA2 3 @)' / 5' ' /M ' C2 8 BA ' 4%' 56 * 7 ' 3?' 56 >' A ; >59' %4>' 43)' &4&,+ A456)' > 3@ 3?' 4%)' 2' ?3' 4%' ?> %)' # 3 ' CCC : ' FJ ' 7 6 3' % > 5' 8 35 43 @' 3' 1> B5 >)' &4&,+ T =' >2 A 5 ' A B5' 3' 56 >)' C4@ ' CC ' FW ' 2 ' 56 ' >2 ; ' 25') 35)' &4&,+ A456 3?)' 8 52B64>' 4%)' 8 16' @' 3' 1> B5 >)' *4 ;' CC C ' /N' ' A4 @' 4%' ?A4>9' % AA 3?' 56 ' 5 8 BA)' 7 625' 5'5 5 % @)' / ! 3? ' : ' / ' T T ' B AA2>' 4%)' 2AA @ @' 54 ' ' : ' 0 56 1<)' ?3' 4%' # 4@- ' B> 31 ' ' : ' N ' ' ' A4 @ ' 4%' @ 5' 23@' 23@)' @ 1> B5 43' 4%' 56 >' 4 : >7 6 A8 3?' B4 7 >' 3' 56 ' 2 5)' 5 ' CC : ' FN ' 4 ; >: 25 43 ' 43' 56 8 ' *4 ;' CCC : ' .' CCC : W' 8 2>< 2 43' 4%' 8 >9)' B > 1 5 43)' 23@' P 5>G ; A)' U < ' CCC : /F ' 12>> @' 7 56' 2' 5 8 B 5)' %4>1 ; A9' @' 2 ' 2' 14 8 B2> 43)' F' 5%' 6 ' 54' 14 8 ' 3' 56 ' 1A4 @)' 4%' 7 625' 2' <34 7 3' 9 8 ; 4A ' $: ' C ' / ' A4 5 @)' 7 625' 56 ' 7 4>@' 8 23 ' *4 6 ' C ' 0 64 ' 2 ' 4A@' 2 ' 56 ' @29 ' 4%' 4)' 5 ' CCC ' F0 ' 231 35A9 B2>5' 4%' 2' 4A@ >- ' @> ' 3' 56 ' 14 35>9)' &4&, ' 7 625' 347' 4' 12AAD @)' &4&,+ # ' 5 ' 5 25 43 ' 15 ' CC : ' 42A)' A :)' CBA2 3 @ ' ' : ' M 4 A ' 4%' % >)' 8 23 3?' CBA2 3 @)' ' C9 ' /F .' >4 : ' CC : ' FF. U < ' ' F' P P ' ' 42 5)' 8 23 3?' ; 4>@ > ' 4>' ; 4 3@2>)' = 2 5 5 ' ' AM %M>' [' B2>5)-' 4>' ' 3A23@' 14 35>)-' 255 ' C : ' F / 425)' 647' @ 5 3? 6 @' %>4 8 ' 1A4< ' 255 ' %+' N ' 4%' 8 239' 14A4 >)' 7 625' 5' ?3 %)' # 3 CCC : ' 41<25> 1 ?? ' CBA2 3 @ ' ' A C ' 0 ' 41<1>47 3?)' 57 4' B > 4@ ' 4%' 5' 647' > 1<43 @' ; 9' 56 ' * 7)' 255.' CC : ' N 4%% 3 ' 3' ?9B5' 4%' @ %% > 35' 8 25 > 2A))# 3 ' /' FM ' 4%' A43 =' @ >2D 5 43)' &4&, ' 345' @' 3 : > 2AA9)' &4&, ' 7 69' *4 B6- ' ; 4@9' 2 @' PP 54' 62 : ' ; 3' B 5' 3' 43)' 4 3)' 56 ' 3 1> ; 3?' 56 ' B> 31 - ' 328 ' 43' 5)' 7 625' 5' @ 345 @ ' 255 ' CC ' F/ 4 31 @ 31)' 4%' 21> @' 23@' B>4%23 ' 6 54>9 ' ' C ' /W ' ; 57 3' 56 ' 5 216 3?' 4%' 6> 5' 43' 2>56' 23@' 56 ' > : A25 43' 8 2@ ' 54' 5' 2 A)' 5 ' 8 B4>5231 ' # 2A ' ' F ' ' ' ' ') 4A@' 3' * @ 2)' @ ?> ' 4%)' 25' 56 ' 5 8 ' 4%' 56 ' ++2 4: %))*463' C: / L ' ' P ' ' P 4AA 15' %4>' e 3G 2? 8 2' 3@29)' 5 ' C1 AA 31)' / 4>' C ' / ' ' %4>' 56 ' 143@ 3@29' 2%5 >)' 2 5 >)' 23' CB> 43' 3' 5' 148 D 8 3@ @)' / 5 ' F / ' ' ' ' %4>' 56 ' % %56' 3@29' 2%5 >' > 3 59)' 5> ' %>2 8 ' 4%' 8 3@' %4> 4%% > 3?' B' 56 ' B>29 >' 3' 5)' / 5 ' ' /0 4AA ?)' @4 ;5 ' 2 ; 4 5' 56 ' 7 4>@' 4' 5>23 A25 @)' F' ! 3? ' CC ' /N' 4"4)' 7 6 > ' 5 25 @)' 35>4@ ' 54' 4A4)' G 5 43' 7 6 56 >' 5' 2 A' 72 ' : >' 56 >)' &4&, ' 16 >16' 4%)' B>4 ; 2 ; A9' %4 3@ @' ; 9' 6 8)' &4&,+ + ' B 5A ' 54)' 4112 43' 4%' 5)' 35>4@ ' 5 #' ' # (' 76 >)' 7> 55 3)' @ ' ; 9' 7 64 8 ' 35)' 5 ' 1435 35) ' 3' 7 625' 3 ' 148 8 3@ @' %4>' 56 >' %2 56 ' 4A ' .' N 4 8 ; 25)' 3?A)' 8 2? ' ; 4>>4 7 @' %>4 8 ' * 4 ; ' C : ' * 7 ' 3?' # 4@- ' B>2 ' 43' 2@ : 231 3?' 54))' ' C C ' M [4 8 ' 64>5' 4%' 56 ' ?A4>9' 4%' # 4@-' CBA2 3 @)' $4 8 ' ' F ' G D 5 43 ' 43' 56 ' A255 >' B2>' 4%' 56 ' B6>2)' &4&,+ 4 8 %4>5 ' B>4B4>5 43 @' ; 9' # 4@' 54' 4 >' 2%%A 15 43)' F' 4>' > ' AM ' 4 8 %4>5 @)' 647' # 4@' 2 @' 54' ; ' 4' 76 3' ' C 1 5 '+ 5 1)' U < ' ' / ' V 4 8 3?' 4%' 6> 5)' 54' 7 A 25' 5' > % >)' 2><' C ' N [' T =' 4%' 56 ' "4>@)' -' 647' 5' 8 29' ; ' 3@ > 544@ ' *2 8 ' : ' L T T ' 4%' 56 ' 43' % 8 23)' 56 ' 8 23 3?' 4%' 56 ' CB> 43 ' 255 ' C ' F ' P 4 8 8 23@' 4%' # 4@' @' %4>' B >8 43 ' ' : ' / B 5' %4>' 239' B2>5' 4%' # 4@- ' 14 : 3235)' " 2 8 ' NW

'(' ' '

43=: ?25 3 '5625'62: ' 7 5A @>27 3' %>48' 2' 6 >16'A27% AA9' 52D
;A 6 @'345'54' ; '+4 3 @' 7 56)' 48 'C: '
4)' 23456 >' 328 '%4>' * 143 26)' * >' CC ' FN
43)' 56 ' 6<464'@ 1> ; @)' >4: ' CCC 'F0' ' 43 9' '
43+ ?2A' 3% @ A59'> B>4: @)' 2 ' ' /N
43G >4> ' 3' 56 ' 2 5)' B>215 1 ' 7 56'> B 15'54' 56 >' 3 8)'
'1C'
43 1 31)' 56 '%4>1 ' 4%)' * >' CC ' 56 '%4>1 '4%' 23' :A'43 '@ D
BA29 @' 3' 62;)' /' ! 3? 'CC 'F ' C 8BA% @' 3' >4@)' 255)'
C:' F' 3' ' AC)' 15 ' C:' F0' 3456 3?' 84> ' 7 2<' 5623' 2'
? A59'43)' 23 ' : 'M' 2' ?44@' 43 ' 56 ' 43A9' 5> ' B> 31 BA ' 4%'
A492A59)' 23 ' : ' FF' 56 '5 5 8439'4%)' 84> '54' ; '> ?2>@ @'5623'
) 56 '1 3 '4%' 8 3)' F' 4>' ' /F' @ > 4 >' 54' 56 '+ @?8 35'4%'
#4@)' &4&, ' 5 ' :2A)' /' *463' ' /J' 5 ' <347A @?' ' 3% > 4 >' 54'
5625' 4%' #4@)' : >' F ' 345' 56 '43A9' 1> 5 > 43' 4%' ? A5A 3)'
/ 8 ' '
43 1>25 @'56 3?)' 3' 4%'52< 3?' 56 8' ;21<)' >4: 'CC 'F0'
43 1>25 43' 4%' 2>43)' 1?> 8439'4%)' 7625' 5' ?3 % @' " : ' :
; 9?
43 G 31 ' : 3' 4%'?44@' 215 43 '54' ; 'A44< @'%4>72>@'54)' 48 '
C: '
43 @ >25 43' 56 'B>4B >' 215'4%'> 2 432;A '1> 25 > ' 'CA: 'L'
43 52319' 3' > A ? 4 '@ 5 '3 1 2>9)' 5': ' ǂ
'56 '%> 5' 4823' 8B >4 >' 764' 4B 3A9' B>4% @'
6> 5 23 59)' 23 'C ' N)' 0' 56 ' 52;A 68 35'4%' 6> 5 23 59'
; ? 3' ;9' ; 8)' @ 345 @' ;9' 56 ' C56' 2A)' 9' 9 ' /F' 647' 56 '
8 ?659' 1623? ' > B> 35 @)' &4&, ' B47 > '23@' ;+ 15 '4%'B2?23'
@4A25>9' 4: >14 8 ' ;9' 6> 5 23' > A ? 43)' : >' /0' ?3 % @' ;9'
P 56 ' 823 16 A@)' : 'C ' 0' 6> 5 23 ' 3' 6 '5 8 ' 2BBA @' 56 '
B>4B6 19'54' 6 '2@:231 8 35'54'56 ' 8B > 2A'56>43)' : >' ǂ
43 5 AA25 43)' 4; >:25 43' 43' 328 '4%)' *4;' C' J
43 5>2 3)' 8 23 3?' 4%' 5)' F' ! 3? ' : 'L
43 5> 15 43)' 2A5 >325)' 3 5231 '4% ' 'A ' /=
43 8B5 43)' 7625'@ 2 'B>4;2;A9' 35 3@ @)' 5 'CC: 'FF'
435 8B5' 4%' #4@)' 647' 6 73' 2? ' 'N
4%'4 >' ;> 56> 3' 1435 8B5' 4%' #4@)' # ' C' 0
[' 435 35 4 '23@'4; 9' 345'56 '5> 56-' CBA2 3 @)' 48 ' 'L'
435 358 35' C 8BA% @' 3' ;>28)' # 3 'C : 'F ' C 8BA% @' 3'
*214;)' # 3 'CC: 'F ' 3' 5' 2 A)' 6A' : ' / /' 56 '@ 59'4%'2'
6> 5 23)' &4&, ' 143 @ >25 43 '54' 3%4>1 ' 5)' &4&, ' 76 3'56 ' : >D
5 ' ' ; 5'5> @)' &4&, ' 48 'B2>5 1 A2> '4%' 5' 3 8 >25 @)' / 8 '
7 'M' 345' B2>2;A '%>48' 5> 'B 59)' U@' 56 '?> 25' ;A 3?'4%'
A%)' 11A ' : ' /F' '
435>215 ' 4A 8 3A9' 255 5 @)' # 3 'CC C 'FF
[' 435>2@ 15 43' 4%' 33 > -' CBA2 3 @)' ; 'C '
435>2>9)' : >9' 56 3?' 62 ' 5 '1435>2>9)' 11A 'CA 'FN'
435> 5 43)' 5> '23@' B >% 15)' 3 1 2>9'54' @ A : >' %>48'B 3 68 35'
4%' 3 ' *4;' CCC 'FN.
43: 3 35)' (? 56 3? ' 76 16' 2> ' 345' 143: 3 35-' CBA2 3 @)' 48
'FL' 7625' 8 235' ;9' [' 345'143: 3 35-' 2 ' 2BBA @' 54' 3@ 1 35'
@ 14 >)' B6 ' : 'N
42: > 25 43)' %> 3@A9)' ;9' 5'%21 A5 ' 8B>4: @)' >4:A'CC: ' /W'
T T ' 7625' 5' ?3 %)' / 8 ' : ' /F
T T ' 23' B> ?65)' 8 4> ' :2A @' 5623' 4 572>@' B >%4> 8231)' V 16
: ' ')
43: > 43)' 56 ' 2 43' 4%)' 56 ' @29' 4%' 6> 5-' B47 >)' ' 1C' '
54' 7648' 2 1> ; @)' * >' CCC ' /L' 5> ' 23@' % A ' @ 53? 6 @)'
4 ' : '
T' ? 3 >2A)' 4%' 56 ' * 7 '%4> 54A@)' U <' CCC : ' F ' 7 AA' ; '34D
5 1 @' ;9' 56 '6 256 3)' U <)' CCC: "'FL' ' 54>25 43' 4%'56 '
* 7
43: >5 3?' 4%' 33 >)' 3' 7625' 3 ' 5' [' 62AA' 6 @ '2' 8 A5 5 @ '4%'
3)-' *23 ' : 'F ' > 82>< '43' 5 '211 B52;A 3 ' 3' 56 ' ?65' 4%'
#4@)' &4&, ' 23@' 5 '2@:2352? '54' 6 8' 764' @4 ' 5)' &4&, +
43: >5 '544' 2B5' 54' ; 'B %% @' B)' 48 'C ' ǂ 14>> 15 @' ;9' 5
2 A)' &4&, ' 3@ >' 7625'% ? > '> B> 35 @)' F' 4> 'C 'F
T T ' 6> 5 23)' 2' %2 8 A9' 4%)' ;47' @ 345 @)' / 4> 'C:)' B)' 647)
'76 3' 56 9' @ @' 345'%4>8' 56 ' 764A '%2 8 A9)' &4&, +
54' 56 ' #4 B A)' 647'@ 53? 6 @'%>48' 456 >' # 35A)' 48
5' 'A?
43: 9231 '4%'B>4B >59)' 84@ '4%' 2 5 >3)' * >' CCC ' / /'
44B >25 43' 7 56' #4@' 3' 4>@ >' 54' 4 >' 2A:25 43' 148 823@ @)' B6
'L' 5 '143 5 319' 7 56'56 '@415> 3 '4%' 2A:25 43' ; 9' ?>21))
T' 4%' 8 3' 7 56' #4@-'?>21)' 3 1 59' 4%' 5' 8BA @)' *28 ' : 'L
=

44B >25 43'4%'823' 7 56'56 ' B > 5'4%'#4@)' 255 5 @' ; 9' : >2A'B2 D
2? 'G%' 1> B5 >)' / 5 'FF' AA 5>25 @' ; 9'56 ' 3 43'4%'56 '574'
325 > ' 3 > 5)' &4&, ' +4 35' %% 15'4%' : 3 '23@' 6 823' 2? 319'
@ %% > 35A9 2 1> ; @)' &4&, ' 84@ '4%'> 1431 A 3?' 16' 5 C5)' &(0, ǂ
4BB >)' 8 3 '4%)' 74><@' 3' 2 12)' U <)' CC: '
4>2A' 6 ?6A9' 5 8 @' 28 43?' 56 '231 35 ' *4;' CC: ' /L)
4>;23)' 4>' '? %5 i' 56 ' 3 23 3?' 4%' 56 ' 74>@' 23@' 4%' 56 ' B> 1 B5'
' 76 > ' %' ' 2 @ @' 54' 255 'C: ' 0
4>@)' 2' 8 2 > 3?' A 3)' 1 ' ' P
4>@ ' 2> ' ;>4< 3)' 8 23 3?' 4%'56 ' CB> 43)' * >' ' F
T ' 4%' 2' 823' CBA2 3 @)' 4 ' 'N
4$ >)' 76 > ' 5 25 @' 15 ' ß # /' 35>4@' 54' / 4>' 162>21D
5 >' 4%'56 'BA21 '23@' 5 ' 362;5235)' &4&, +
6 >16' 4%)' BA235 @' ;9' 5' 2 A)' +5>4@' 54' / 4>' 2; ' 3D
5>4@ 1 @' 354' 5' ;9' %2A '5 216 >)' &4&, ' @ : 43 '23@' 456 >' >> D
? A2> 5 '5625' 2>4 ' 3' 143 G 31)' &4&, +
4> 356 23' 4%% 3@ >)' 769' 5' 2 A' @ % >> @' 56 >' B 3 68 35)'
F' 4>' 1 ' M)' '
, * I - . E ' %> 5' B 5A ' ' 76 3' 23@' 76 > ' 7> 55 3)' 35>4@' '
112 43' 4%' 5)' &4&, ' 5 '1435 35)' &4&, ' 4%'?> 25' 8B4>5231 '54' 2AA'
6> 5 23)' &4&, ' ;9' 7648' 35'54' 4> 356)' &4&, +
TT ' & (' B 5A ' ' &&' # 4%' 5)' 35>4@' 76 > ' '#(' 76 3'
7> 55 3)' &4&, ' ;9' 7648' 35)' &(0, ǂ , # # '4%' '&4&, +
PT T' B 5A ' 54)' G 543' 76 56 >' 5' 2 A' 7>45 '2'%4>8 >'43)
/ 4>' 3 J
> 2 43' 4%' 56 >' B> % > 31 '4%'@ %% > 35 5 216 >)' / 4>' ' /F)
56 >' %2 A5' 3' >23< 3?' 56 8 A: ' 3@ >' @ %% > 35' 82 5 >)' &4&, +ǂ
148 8 3@25 43' 4%' 56 >' %2 5A)' 55 >231)' 23@' <347A @?' ' 647'
54' ; '> 5>2 3 @)' / 4>' ' / .' C 'F' 2; '28 43?' 56 8' 3 2>A9'
2AA @' 5 '56 '1> 8 '4%' 56 ' >2 A 5 ' 3' 56M' 7 A@ >3)' ' 4>'
1' ' 769' 345'54' 215' 1435>2>9'54' 5' 2 A- ' 3+ 315 43)' / 4>'
C: ' ' 76 > ;9' 84> ' 2; 3@235A9' 2 > @' 4%' 5' 2 A- ' 3D
1 > 59)' F' 4>' ' /F' 769' 5' 2 A' @ % >> @' 6 '+4 >3 9'54'56 8)'
F' 4>' C ' ' 647' 6> 5' 6 7 @' 'B47 >' 2843?' 56 8)'
F' 4>' C ' ' 769' 5' 2 A' B>29 @' 5625'56 9' 8 ?65' @4' 34' : A)'
: >' W
48)' 647' 5' '> 2B @' 3' %6 2 5)' * >' C 'FF' 345' 521< @' 3' 56 '
5>27 ' *4;' : ' F4' 56> 6 @' 3' 56 ' 4B 3' A@)' *4' CC ' /L'
56> 6 @' ;9' 2' 76 A' 4>' 2' A @? ' @>27 3' 4: >' 5' ;9' 4C 3)' >4: '
11' .' / 6>43 'C 'F ' 4>' ;9' 56 '% 5' G%' 4C 3)' > 5 'CC: 'N'.'
1' : ' / ' A2 @' 3' 6 2B ' 76 3' 56> 6 @)' 43?' 4%' 4A)' : 'F'
647' 7 3347 @)' ' 'N' 25' 7625' 5 8 '?>4 3@' 3' 56 ' 2 5)' * >
CC: ' A ' BA 1< 3?' 2> ' 4%' 5' B >8 55 @' ;9' 56 ' * 7 6' A27)h'
255 'C + ' / ')
TT ' 23@'%> 5)' 56 ' A2 7' 4%' <A4 'B >8 55 @' 54' ; ' ?256 > @' ;9'
B > 43 ' B2 3?' ' 255.' C A'
B 5'%4>' 4B 3' 14 35>9 ' *4;' CCC C 'N
' ' 8 C @)' '4%)' 7625' 5' @ 345)' U <' : ' ')
8 2 > '4%)' 8 35 43 @' 3' 8 2>> 2? ' 1435>215)' >%4)' 3 ' F
=T T' 56> 6 3? 4%)' ?> 25' 12A2 8 5 '148 B2> @' 54)' 1' 9 i F'
! + # ' ;9' >21 ' 2' # 35A)' ; 5' 345' 23' @4A25 >' 15 'C' / ' 6 '
B 59' 23@' 162> 59)' : >' F)' N' 6 ' BA 2 @' #4@' 56>4 ?6' %2 56' 3'
56 'B>48 '4%' 6> 5)' : >' N' 6 'G 2A%125 43' %4>' 56 ' > 1 B5 43'
4%' 56 ' #4 B A)' ; @)' 6 'B 59' 2A43 ' 345' %% 1 35' 7 564 5'%2 56'
3' 6> 5)' ; @)' @ ?3' 4%' 56 ' : 43' B> 35 @' 54)' 6 8)' : >' / 0 -)
4>3 >)' 3' 56 ' 2 5)' 56 'BA21 '4%' 6434 >)' 84 ' ' /F' 769' @'
%4>' 56 '16 %'B > 432? ' 3' 2' 148 8 3 59)' V 16 'C 'N'
T ' 543)' 5 ' 59B 12A' 8 23 3?' ' 255 'CC 'NF' 6> 5' 4' @ ?D
325 @)' ! 48 ' C ' F' 647' 6 ' ; 128 ' 2' 543 '4%' 5 8 ;A 3?' 54' 56 '
* 7)' ; @' ' 543
48 > '4%' 42;' 8 55 3' ;9' 2: @)' 8 ; 'CC : ' /W' %? >25 : A9'
CBA2 3 @)' : >' /J
%4 >)' 4%'56 ' 2>56)' 7625' 5' 8 23)' : ' : ' /
)' 4>3 5)' 328 '%4>' 5> 8B 5 ' 8 ; '= F ')
4>B4> 2A' ?> 253)' 9 4BA '4%' 56 ' 2 5'%43@' 4%= 5' ' / /' 3D
5231 '4%'56 >' %43@3)' ; @)' 2BBA @' 54' 56 ' . '4%' ?)' &4&, ǂ
4>> 15 43)' #4@-.' 56 >' ?> 25' :2A '54')' '1: '
4>> B5' 31A 325 43)' 7625' 56 ' 8 4>5 %9 3?' 4%' 56 8' B>4: '#2A': '
FN' 7625' 56 ' CB> 43' 8B4>5)' &4&, '
T '148 8 3 125 43)' 7625'@ 14 > '16 %A9' 35 3@ @)' ; 9' 5)' B6
: 'FJ ' 54' 7625' A ' 5' '2BBA 12;A)' &4&,
A' T T' 56 ' 74>@' 4%' #4@i' 764' 2@' 54' @4' 4)' F' 4>' ' '
4>> B5 43)' 4%' 6 3 2 ' 325 > ' C 8BA% @' 3' ' 2 A 5)' C4@'
C: ' F

4>> B5 43 4> ? 32A) @ > : @ %>4 8 ' B2> 35) ' A
4552? ' 3 2 ?2>@ 3) 7625 8 235 ; 9 5 ' ' ' ." 2 8 ' M)
4 31 A) 56 ' $4 8 23 ?4 : >34 > ' 4 % B>4 : 31 ' 2AA9 62@ B3 '
15 ' , ' J)
T T ' * ' 56 ' * 7) B>4 : @ 31 ' 4 % # 4@ 3 ' ; > 3? 3? * ' ; %4> '
56 8) *463 C ' H ' 236 @> 8
' 4 % * > 2A 8) 56 ' % > 5 ? 3 >2A 14 31 A) 4 % 56 ' 6> 5 23
6 >16) 15 ' C : ' M ' 5 ' @ 5 315 43 2 ; 4 : ' : >9 ; G 35
14 31 A) (&, 5 ' @ 1> ' 2@@> @ 54 2AA # 35 A ' A : 3? 7 56
* 7) : >' JH 7 69 2 A 23@ &2>32 ; 2 ' 7 > ' 345 35 2A43 ' 2 '
56 ' ; 2> > ' 4 % 56 ' @ 1>) : >) J< 5 ' @ 1> ' @ 1525 @ ; 9 56 '
1 >1 8 5231 ' 4 % 56 ' 6 >16 25 56 ' 5 8) : > ' FJ] ' 23@ ; 9 B> D
@ 35 255 35 43 54 56 ' 7 A%2> ' 4 % 56 ' 6 >16) 56 ' 6 8 A 59
' 23@ 8 4@ >25 43 4 % 5) & &, 2 8 4@ A %4>' 2 ' 14 31 A ' 54 8 2 352 3
62> 8 439 3 56 ' 6 >16) !&, +
4 % > 35) > 8 2 -< ' 43 @ 1A2>25 43 ' 4 % 5) J 21 ' C) NN . ;
' /L ' =
= ' 162 8 ; >) 3 7625 B2>5 4 % 56 ' 1 59 231 35A9 5 25 @) 5
' C :) /L ' 2BBA 125 43 54 2 14 8 8 43 1> B5 >2A B6>2) &, &,
4 3 A) ?44@) 625 % A 54 33 > ' 8 ; ' C : '
4 35>9 > 3 @) % ? >25 : A9 @ 1> ; @) * > ' : ' JH+
' 7625 4 35>9 56 ' 25> 2>16 ' 4 ?65) ; ' C ' /N ' 7625 56
' B>4B > 14 35>9 4 % ?44@ 8 3) !&, +
'** & # * ! "! & "# ! ' ' #' "! ' / (" ' ' &V1VD ' ' 2
> A ? 4 ' : >5)) ' 1CC ' D 2 B 4 ' 2%% 15 43) 6 ' ' 2
5> < 3? 3 5231 ' 4 % 5 3 6 8 26)
4 35> ' 14 8 B2> @ 54 7 4 8 3) * > ' CA : ' J '
4 >2? ' ' , >5
P 4 8 B25 ; A ' 7 56 8 6A3 ' 8 ; ' C
4 8 5 B> 8) 7 6 > ' 5 25) 5 C ' + B6>2 ' %4 3 @ @ 56 > '
' [B43) &3&, +
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(' ; ' ' " 6%' V ' ' ' V # ' % (-' C : ' / ' 56 ' >2 ; 23)' * >' CA : ' J 6 43)' 55 3?' 43' 43 '23' CB> 43' 4%' 6434 >' *4 ; ' CC C ' W ' 548)' 64 '%4>' 56 '> 1 B5' 4%)' 76 > ' 5 25=)' 2><' /N ' # 594 > A:)' 769' 56 ' >2 A5 '%4> ; @@ 3' 54' @4' 4% 5 'C : / ' 23' 231 35' # 35 A ' 1 548)' &4&, ' 5 AA' > 52 3 @' 2843?' 56 ' * 7)' &4&, ' 23@' 3' ; 9 3 2)' &4&,+ 5'4%%' ; 9' 2' + @ 1 2A' 35 31)' B4< 3'4%'56 ' 26)' 23 ' C ' FM ' 4 !' 5 ' B>4 ; 2 ; A ' 5 25 43)' F' ! 3? 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B>4 : @ 31 '54' > D 54> ' 56 ' * 7)' &4&, ' B>4 ; 2 ; A9' 84 : @' ; 9' 56 ' 14 3 A' 4% 2= A) 'P &4&, ' B>4 ; 2 ; A9' 3 B > @' 7 56' 56 ' <347A @?' 4%' 56 ' 43 ' 5> ' #4@)' : >' F' 769' > B> 35 @' 2 '%>48'56 ' A 4>5)' 23@' %>48'56 ' 2 5' ' C ' F0 ' 7625' 72 ' % > 5' % A% AA @' 3' 6 8)' 2% 5 >72>@ ' 3' 6> 5)' ' CA : ' / ' 328 @' F ' 9 2> ' ; %4> ' 56 ' : 35)' ' CA : ') FL ' 769' 12AA @' 56 ' "4>@-' 234 35 @ ' ' CA : ' / ' B>4 ; 2 ; A9' 2@' @> @' ; 9' #4@' 2 ' ' 3 5> 8 35)' * >' A ' F)' 7A 562-' 8 235' ; 9' [' > ?65 4 ' 823'%>48'56 ' 2 5)-' ' C ' F)

' @ 1> ; @)' 5 ' : ' /L ' 8 23 3?'4%'56 ' 328)' * @?' : F ' ' 2 A9)' 5 ' 3 ' 3' 56 ' "4>@-' >29 >)' 255 ' : ' / / ' T ' 84>3 3?' B>29 >)' 7625' B>4B >' ;+ 15' 4%5' ' CA C ' F ' % 5%' < 3?@48'4%5'@ 1> ;)' F' 2>2 ' : ' 0 ' = T >T' 159'4%)' B>4B6 1 ' 1431 >6 3?' 5)' * >' CA C ' F 2' 162>215 >' 4%' 56 ' BA21)' 84 ' ' /F ' 3 8 ; >' 4%' * 7 '> @ 3?' 56 > ' 15 C ' F 9> 23 '4%5' 764'56 9' 7 >)' F' 28 ' : ' 0 28 325 43)' 7625' 8 235' ; 9' 5' 3' 5' 2 5-' > 82>< ' 43' 56 ' "4>@-' BB >)' / 4> ' C ' FJ)' 8 ?65' 6 ' ; 55 >' 5>23 A25 @' 2 ' 5>23 A25 @' A 76 >)' &4&, ' 7625' 5' 8 235' 76 3' 56 ' & ; A ' 72 ' 5>23 A25 @)' &4&, ' B>44%5625' 5' @4 ' 345' ?3 %9' 5 >32A' @28325 43)' : >' F ['' T T ' 764 ' @28325 43' '+ 5)-' G 543' 431 >3 3?' 56 ' B > 43 ' %7648' 5' 2 A' B 2<)' $48 ' ' L ' [C ' 769'@ 1> ; @' ; 9' *214 ; ' 2 ' 2'+ @?' 4%'6 ' B BA)' # 3 ' * C AM ' 769' 148B2> @' 54' 2' >B 35)' : >' ' ' T '5> ; ' 4%5' 5 ' 3 8 >4 8 ' 8 ; ' /)' 769' 525 43 @ 3' 56 ' > 2>' 4%' 56 ' 2>89)' &4&, ' 5 ' ; A 3?' ; 9' 4 ' CBA2 3 @)' 5 ' CCC ' FF ' 8 3 359' : >% @' 3' 28 43)' &4&, ' 143 D G 31 '4%'['56 >' 142 5 ' ; 3?'544' 82AA ' *4 6 ' C C ' NW ' , 69'56 9') 14 A@' 345' 21G > ' 56 ' 764A ' 4%' 56 >' 2AA458 35)' * @?' C : ' / ' 56 >' >>4 >' 3' 143 A5 3?' 25' 126-' 52 ; >321A)' : 9 ' 0 ' 56 >' %2A ' 74> 6 B)' : >' P128B' 4%)' 76 > ' 5 25)' * @?' C >' F0 P43 ' 4%'56 ' B> 3?' *4>@23)' # 3 ' C : ' / N ' 159)' 5A ' 84 5' 34>56 >3' B2>5' 4%' 56 ' A23@ 4%' >2 A)' * @?' CC / ' ['%>48 ' 23'54' & > 6 ; 2)-' 7625' 5' CB>)' &4&, ' 2%5 >72>@ ' 12AA @' 2> 2 6 A BB)' U <.' CC : ' /J ' ' 769' : 41 ' @ 1A2> 56' %>48)' * >' : ' /0.' : ' AM T ' 8 3543 @' ; 9' 4)' @ %% > 35' %>48' 56 ' BA21 ' 4' 328 @' 3' ' * @?)' 5' CCC : ' / ' B>4 ; 2 ; A9' 2' > : >)' ; @ 231 3?)' 647' 143@ 15 @' 3' 56 ' 2 5)' C4@' C : ' F ' B>215 @' ; 9' 56 ' 231 35 ' 43' > 4 ' 23@' 21> @' 4112 43)' F' 28 ' : ' / ' 1 5482>9' 25' 2 5 >3'% 5 :2A ' 255 ' C : ' M 23? >' 345' 54' ; ' 2 : 4 @ @' 43'% 5' 4112 43)' 56 ' : ' AM ' = 8 ' 2@2B5 @' 54' 564 ' 764' 62 : ' 12B @' ?> 25)' ' CCC ' J ' 23? > '%4' 76 16' 823' ' CB4 ^ @)' 3 8 >25 @)' ' C1 ' /N > .' 4%' 5> ; ' 4%' * @26)' %28 A9' 4%' V @ < 26)' 12>> @' 12B5 : ' 54' &2 ; 9A43)' > 3473 @' %4>' 7 @48)' 564 ?65' 54' > 8 ; A ' *4 B6)) 647' A43?' 6 ' A : @)' 6 ' 59A ' 345' B4 51<)' 2' >4B6 5)' 54' > + 15' 6 'B>4B6 1 ' ' 54' > + 15' 6> 5 23 59)' 54' > 2@' 56 8' 7 56' 25D 5 35 43' 74 A@' 143 : >5' 23' 3 ; A : >)' 35>4@' 54' 23 AT =75D 3 @' 56 ' 21148BA 68 35' 4%' * > 8 26-' B>4B6 19)' 23 ' ' F/ ' > 82>< ' 43' 6 'B>4B6 1)' 23 ' ' / ' 769' 6 '%4AA47 ' 62A@ 23' [148B 525 43' 4%' 5 8)' ; @)' 6 ' 84@ 59)' : >' FL ' 7625' 8 235' ; 9' 6 ' ; 3?' 16 %4%' 56 ' ?4 : 84 >' 4 : >' 2 ' 56 ' 7 ' 8 3) ' : >' NL ' 8 23 3?' 4%' 6 ' 14 3 A' 54' ; 162@3 UU2>)' 23 ' : ' FW ' 6 ' 143 52319' 3' B>29 >)' 23 ' : ' /)' FL ' 6 ' 1431 3 ' %4>' 6 'B 4BA)' 23)' :)' =W ' 6 ' 143@ 15'2' 84@ A'%4>'4 >' @ :45 43)'

2 K;1' IJ' I -;' 9M2 ,29.C' .II;ME

255'C C' ' 56' C1 B5 43' ' *&%4>3 125 43-' 345' CB> @)' ; 5' 8BA @)' 3' 5' 2><' 23@' 5'" <)' 2><' C' '56 'B>215 1 '4%' @ :4>1 3?' 56 '6 ;23@ 35>4@ 1 @' 23G 43?56 '* 7)' 2><' C' /F' '$ B @ 25 43 :4>1 @' 748 3)' 769' 345' B >8 55 @' 54' ; '52< 3' 2?2 3' ; 9' 56 >' %4>8 >'6 ;23@)' 5'CC :'N' B> @ 31 '4%'56 '> 5>2 35)' &4&,+ :4>1 8 35)' ; AA' 4%)' 1 548 '> B 15 3?' '/' 4'2AA' 3'56 '328 '4%'56 '"4>@' *)-' > 2 43' 4%'56 'B> 1 B5' 4A' '/W' B2>5 1 A2>' > B 15 ' 3'76 16' 5' 64 A@' ; 'B >%4>8 @)' &4&,+ / ' 15' 4%)' 56 >' @415> 3)' / *463' :' 647'4BB4 @' ; 9' 5' *463)' &4&,+ 4154>)' 1 548' 4%' 2 < 3?' 56 8' G 543 '43' @4 ;5% A' 8255 >)' " < ' 'NM'] 415> 3)' @ 1> B5 43' 4%' 5625' B> 1> ; @' ; 9' 5' 2 A)' 5' 'W' 5> 56' 4>' %2A 644@' 4%' 239' 647'54' ; '+ @? @)' '*463' :' 4%' ;2B5 8)' 7625' 8 235' ; 9' 5)' ;)' : ' 4%' 6> 5)' 5'5> 5A' 345' :2> 2 ;A)' ; 'C ' ['4%'56 '#4 B A)'-' 769' 12AA @'56 '74>@' 4%' 6> 5)' 4A' ' 415> 3 '4%' 6 823' 3: 35 43' 345' 54' ; ' 8 C @' 7 56' 56 '#4 B A)' /' 4>' ' /F' 647'56 9' 7 AA' ; '82@' 823 % 5)' : >' / = T '4%' @ : A)' 7625' 5' 8 23)' /' 8 : ' ' 7625' 14>> B5' @41D 5> 3 '%4> 54A@)' &4&,+ 4%' 56 '#4 B A)' 56 '?>4 3@' 4%' 56 '#4 B A' 84>2A 59)' '*463 :'F/' 56 >' %% 15'33' 56 '5 8B >' 4%'2' 6> 523)' &4&,+ P '769'6 'B> 31 '8 3543 @' 25' 2: @-' 25 3?' 56 ' 6 7' ;> 2@)' ' 28 'CC6' +' 6 '1> A59' 3' %2AA 3?' 43' 56 'B> 5 '2%5 >' %2A A9' 211 3?' 56 8)' ' 28 'CC ' /L' BB4 @' 54' ; ' 2 A-' 2>84 >; 2> >)' ' 28 'CCC 'N' :23 59' 4%' 6 ';42 5)' ' ' ' ;+ 15' 4%' 56' 2A8)' '1C' 35>4@ 4 >' 4%'56 'A27)' 764' 8 235' ; 9' 56 8)' $48 ' / ' 769' 5' 2 A' 29 '56 9' 62AA' ; '+ 5% @)' &4&,+ 4%' 56 '74>@)' 7625' 7 '2>' 54' 3@ > 523@' ; 9' 5' *28 ' 'FF 3 1 59' 4%' ; 3?' 4) &4&,+ 6> 523 '544'? 3 >2AA9' 3 @' 54' ; '72>3 @' 4%' 5)' &4&,+ 4 56'>?65 4 3)' 574' 1>B5 >2A 3 '4%' 5)' '*463' 'W' 3' '43' 3 '23' 3%2AA ;A '82><' 4%' 4 >' B>5 2A 146@ 543)' &4&,+ 4?)' 769' B4< 3' 4%' 7 56' 1435 8B5' 3' 56 '* 7 6' A27)' 5 CC ' /L' 84>2A 35 3543' 4%' 56 ' CB> 43)' &4&,+ >' 2' B 1 ;2> 59' 4%' 56 '@4?)' >4:)' CC: ' 4; 5-)' 8 3543' 4%)' 143 @ > @)' 4; ':' .' C ' 4?)' %4 3@' 3' ?> 25' 3 8; >' 3' 15 '4%' 56 ' 2 5)' 'AC' /N T '%4>' 82A 14 'B 4BA)' 'CC ' ' 764' 4'12AA @' ; 9' 56 '* 7)' 255' 13' .' 69')' F' 769' 56 ' 3; A :3?'* 7 ' '12AA @)' &4&,' B 5'%4>' 7 1< @' 8 3)' $:'CC ' /0 4?-'6 2@)' ['28' '2' @4?-'6 2@-' CBA2 3 @)' ' 28' ' ' 48 3 43)' %>5)' 7625' 54' ; ' 3@ > 544@' ; 9)' % ':' T T' 3 :>2A)' 2 1>; @' 54' 6> 5)' ; ' ' ' 76 3' 2' #4@' ' B4 @' 5)' &4& (# 76 3' 2' 823' 3: 5 @' 7 56' 5)' &4&,' 3% > 31 ' %>48' ' C >1 '4%' 5)' &4&,+ 44>)' 4B 3 3?' 4%)' 7625' 5' ?3 %))a' 4>' C: ' .' $:' ' ' %' T] '4%' 56 '14 >5-' CBA2 3 @)' U < ':' %' <+ Q B4 5' 4%' 56 ' 64)-' 1 >52 3' 5 C5 '%C @' 43' 56 8' ; 9' 56 * 7)' B 35':' 'J' 56 >' 1435 >:231 '%4>' 56 'B >B4)' &4&,' 56 >' > 2 43 '%4>' 5)' &4&,+ 44> '4%'56 ' 2)' 7625' B 5'%4>)' *4 ; CCC: ' 44>< B >)' 764' 56 9' 7 >' ? 3 >2AA9' 2843?' 56 '* 7)' *463 C: ' ! 1 59' 3 2>' 84 35' 2>8 A)' ' 21' C: ' / / ' 5' 5 2543)' ' ! 3? ':' / 4 ;5% A' 8 3@)' 56 'B6>2 ' CBA2 3 @)' " < 'C ' 4 ;5 '4%'56 '= 1 BA '2;4 5' 6> 5-' > >> 1543)' 1>1 8 5231 ' 3@ >' 76 16' Q 48 '@4 ;5 @)-' 255)' CC: ' 4:)' 769' 35' %4>56' %>48' 56 '2><)' # 3':' ' 1433 C43' ; D 57 3' 5' 23@' 56 '4A: 'A 2%)' : >' T ' B6>2 8' 769' 148 B2> @' 54)' 4 ': ' / / T T '@ 1 3@ 3?' A < '2' @4:)' CBA2 3 @' 255' ' /M 4: -'@ 3?)' 143+ 15 > '> B 15 3?'56 '5 >8' 45>23 A25 @)' '! 3? ' :"' F0' '] T T ' 9)' A2>?' 23@' ; 2 5% A)' 2AA @ @' 54' 43?' 4%' 4A' ' /0' 4: ';' A@' 3' 1A %5 '4%'56 '>41< ' 43?' 4%' 4A' ' /N.' * >' CA: ' FL' 769' %4 3@' 3' 56 ':2)' U < ':' A ' > 82><2;A '%4>' 56 >' 8 231A54A9' 345)' 26' ' ' 769' 4A@' 3' 56 '5 8BA ' 255' MM&+')

"5*+')"')/*'2'B'16"B+'*RK(%'1*6' +'A+)'J ;' U 47>9'? : 3';9'56 '6 ;23@'54'56 '7 %)'# 3' CC'/L.' C:'/F' H T 4%'* 7 6';=@)' 4;' ;'/ 4C4A4?9' 3'56 '"4>@-' >29 >)' 255':' / ' P T '25'56 ' 3@' 4%' : >9' 2A8)'%Z '7625'> 2 43' 2BB4 35 @)'F' 4>' C ' /N ''1')-*' K'+)(*')"')/*' K/*+'%1+!'/"B')"'-*'<"1+'6*2*6!' K/ 'F/ > 82><' 43' 5625' 2@@> @'54' 56 '"4>@'*)'F' 8 ':'/L 7625' 5' 2 A' @ 1A2> @';9' 35>4@ 1 3?' 5)' &4&,+ 4C4A4? '@>15 @'54' 6> 5)' F' 5' '/L >2168)':2A '4%' 5'143 @ > @)' 4;':'/N >2?)' 3'6 ;23@>9)' CBA2 3 @)' 'CC: 'FW 2%O"K!'%'+*2K*1)!' *('%16')/*' 2%O"1!'5*2'JH+ ?> 25)' 2'1>414@A)' U <'CC C' + T T '>@)'%? >3?' 56 '6 256 3' $4823' 8B>' $:'C ')'W' 5' : 3' 6 2@' %4>@' 5 3' 64>3' CBA2 3 @)' &4&,' 5'52 A' @>27 3?' 2' 56 >@' B2>5' 4%' 56 ' 52>' CBA2 3 @)' :>'N' 5;' @>2?43' @ B4 @)' 23@' 5'7>256)' CBA2 3 @)':>'/)/W' 56 '%A44@'4 5'4%' 5'84 56)' :>'/0 >2?43 '4%' %>12' 26@' >2; 2'6 ?6A9' B4 434)' &&4' CCC ' ' 143+ 15 >'1431 >3 3?' 56 '23 82A' 56 >' 35 3@ @)' &4&,+ 762A '23@' 2' 843 5 >)' '1CA: 'W' 74>@' CBA2 3 @)' * > C' //'+ 53 '4%' 148B2> 43' 54)' * >'C :'M' ?> 25' >B 35)' 2 ' ' 362;5235'4%' 8 ;2)' 769' 12AA @)' F' @'C:')/*'K(%<*' "#!'#"2')/*'B'(6*21*++!' +'R('5'AL 2%&+' "#'O"(6!"*RK(%1%)'"1' "#')/*'62%&!' D2%'''' EL' 2%40/)' "#'#'+/*+!'416"4-)*6('&'2%<4("4+!' 4.*'5'E' B/%)')/'+' &'2%<(*'K")2)*16*6!'5*2'A >27)' Q C1 B5'56 ' '256 >'@>27'6 8)-' 5'5>' 3)'*463' :' 'NN' %> G 35' 8 52< '2'54'56 '5 C5)' &4&,+ [' 7 AA' @>27' 354'56 ' >2)-'8 23 3?'4%'* @?' :'W 3 ?6' 54' #4@)' 3' 7625' 729' 7 '2>' 54' @4' 4'*28 ' :'L' 3D % > 31 '%>48'56 ' C64>525 43)' &4&,+ Q >27 3?'3 2>'54' #4@)-' 8 23 3?' CBA2 3 @)' * >'CCC 'F/ > 28 +' 8 23 '76 > ;9'#4@'%> G 35A9'> : 2A @' '7 AA' 3'4A@ 5 8)'# 3'CC' '% >3 6' 34'@ > 1543' 3' 84@ 8'58)',R&,+ 56 ' 35 3543'4%'#4@'64 '823 % 5 @' ;9'56 3)'# 3'CCC: 'O' 'T' 3%4>8 25 43' ;9)' 76 3' 148 8 3125 @' 8;'C 'M '%>D G 35A9'4; 1 >)' &4&,+ > : A25 43' ;9)' 143 @@A @'*4;' :' /F 6 256 3' 1 548'54'4;52 3'56 8' ' C:'N 2*++!')"'K2*+*1)'"1*!'B/%)'')'+'01'#'*6!' %1'5'9L 2'1.!')"'0'5*')"'62'1.'%&"10')/*' 2%-+!'B/%)'')'6*1")*+!'3460 :'/J [' >3<'4%% >3? i'1 548'4%)' CBA2 3 @)'* >'CA:'/W= >3<3?)' 1 548'4%'2843?'56 ' >23)' 56' ') >3<)'A G 4>'4%)' CBA2 3 @' 8;':' >48 @2>9)'+ 53 '4%'148B2> 43'54)'* >' 'F >48 @2>)'@4 ;5'2;4 5'56' 8 23 3?' 4%'56 '4>?32A\'74>@) ' ! 3? ':'FL @'54'12>>9'@ B2516)':>9' 7 %5'*4;'C'F0 2"KK'10!'<"1)'14%(!'*RK(%'1*6!' 2"5'R'R'A? >4)'54'; 148'@>4)'7625' 5' ?3 %)' 5':'/0' 143+ 15 >'1431 >3 3?' 5)' &4&,' 12A28 59' 31 @ 35'54'A23@'4%' >2 A)'*>'C:'/ O O''1' ('$%/+')'&*!)/*'K*2'"6'"#'')+'<&')'2'4%1<*!'A'M'10+'R5''' /'B> :2A @'16 %A9' 3' 62;-'5 854> .':>'F' %' > 3<3'7 56'56 ';A44@'4%'56 ' 2 35)-' 23' CB> 43' 2BB>4D B> 25 A9'2BBA @'54' 6> 523'$48)' $:'C: 'M > 3< 3' 7 56'56 ' ;A44@'4%'56 ' 2 35)-' 23' CB> 43' 2BB>4D B> 25 A9'2BBA @'54' 6> 523'$48)' $:'C: 'M > 3< 33' 7 56'56 ' ;A44@'4%'56 ' 2 35)-' 23' CB> 43' 2BB>4D B> 25 A9'2BBA @'54' 6> 523'$48)' $:'C: 'M > 3< 3

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59)' 7 64A)' 4%' 8 23)' 7 625' 5')' 2K ' C ' / L .' 1 ' : ' L
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5)' 7 69' 56 ' 3 55 543' 4%' 8 239' <3473' 43 ' 345 345 1 @' ; 9'
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4%' A % ' 2 A9' 3@ > 544@' ; 9' > // @ B4 @' B% > 43)' 5
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2?A)' 7 69' 56 ' * 7 ' %4>; @@ 3' 54' 25' 5 ' " : ' C ' ' 6 ?6A9' > D
: > 31 @' 23@' 74> 6 BB @' ; 9' 56 ' ?9B5 23 ' 23@' 456 >)' @ @)'
5 ' 164 1 ' 4%' 5 25 43 ' %4>' 5 ' 3 5)' 8 ; ' CC : ' .' * 4 ; ' CCC C)'
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5 ' CCC ' ' 5 ' 94 56' 647' 2 @' 54' ; ' > 3 7 @)' ' 1 ' X)
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T =T 2' B>4B >' 8 ; A 8 ' 4%' 9>)' ' CA : ' ' ?> 25)' ; 162@D
3 UU2>' < 3?' 4%' &2 ; 9A43' ?3 % @)' U < ' C : '
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[' 3' 56 ' 2>-' CBA2 3 @ ' 255 ' C ' FW
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CB> 43 ' 255 ' C ' / 0 .' C ' J .' $: ' ' W
[' 54' 2>' 56 ' ?>4 3@)-' 4A@' 3?A 6' %4>' ' 54' BA4 ?6)-' 4>' 54' 5 AA)
3 ' CA : ' .' ' CCC ' FN '))
2>> 3? ' @' 2 ' 162>8)' # 3 ' CCC : ' N ' 74>3' ? 3 >2AA9' ; 9' 56 '
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2>A9' > 3?' B)' 7625' 5' @ 345)' * > ' : ' /
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B > 5' 4%' # 4@' ' ? : 3' ; 9' 729' 4%' 2>3 5)' F' 4>' ' FF ' 647'
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2>3 54%' 56 ' B > 5)' 7625' 35 3@ @' ; 9' 5)' ' 4>' : '
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3 U @)' # 3 ' C ' .' C ' ' 56 ' 43A9' 14>> 15' 2114 35' 4%' 5 ' ; 3?'
B 4BA @)' # 3 ' C ' ' @ : @ @' ; 9' : 3 ' 2BB4 358 35)' : >' 0 '
48)' 5>2@ 5 43 ' 4%' 56 ' 28 43?' 56 ' # > 1 23)' &D&,+
5 ' %4>8 ' <3473' 54' *4 ;)' *4 ; ' CC : ' W ' 345' 525 432>9' 4>' ' 5 >D
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2d' ;>2)' CBA2 3 @ ' " : ' CC : ' ' A 2AA' ; ' % AA @' 7 56' 56
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4%)' 7625' 8 BA @' ; 9' 5)' 5 ' CCC ' ' 3@' 4%)' CBA2 3 @' ' : ' P
' [' 56 ' 2>56)-' @' 54' ?3 %9' [' 56 ' 3?4@A9)-' ' C ' N ' 7625' 5' '
54' ; ' [' 7 > 55 3' 3' 2>56)- * > ' C : ' / ' P
T ' 56>473' B43' 56 ' 6 2@)' 7625' ?3 %A @' ; 9' 5)' F' 28 ' ' F
23@' 725 >)' 56 ' @ 823@' 4%' 56 8' CBA2 3 @)' * @ 56' ' <
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* @ 2' 4>' 56 ' 74>A@)' 1)' ' 56 ' ?> 25' 1435 3 35' 4%' 2 ' 2'
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231 35' 1 548' 2AA @ @' 54)' &3&,+ Q) Z
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56 ' @473%2A' 4%' @4A25>9 ' $: ' : ' ' '
2>56G 2<)' B> 1 @ 3?' 56 ' @ 5> 15 43' 4%' * > 2A 8)' B 1 % @)')
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2 5)' * 7 ' 3' @ 1> B5 43' 4%' BA21 ' BB4 ' 56 ' B 2< >' 54' %21 ' 56 '
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4 ' $: ' : ' ' \
14 35>9)' 56 ' 16 A@> 3' 4%)' 764' 2> ' 8 235)' / ! 3? ' : '
8 3' 4%)' 764' 35 3@ @)' U < ' CC : ' N ' 7625' 14 35>9' 8 235 ; 9'
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T ' 23@' 7 5)' 8 23 3?' 4%' 56 ' B6>2)' 255 ' : ' ' ;
7 3@)' 8 16 %2 1> ; @' 54' 5' 3' 1> B5 >)' # 3 ' C ' ' 769
B >3 14 ' 3' ?9B5)' &4&, ' @>9' 23@' ; A2 5 3?)' * > ' C : ' ' D
; 162@3 UU2>' 148 B2> @' 54)' U < ' C : ' /
2 5 >)' 56 ' 74>@' 2 4 : >' 3' #> <' B/ ' 4 > 3@ > @)' 1 . ' C ' N)'
@ > : 25 43' 4%' 56 ' B"26f &4&,+
@29)' > 8 2><' 43' 5$ ' % 53 ' 4%' 2' B> 31 B2A' B2>5' 4%' 5 ' >: 1
4A ' '
25)' 3' B>4B6 19)' 769' 5' 8 23 ' 54' 148 8 5' 54' 8 84>9)' 54' @ ? 5)'
U < ' ' L .' $: ' C ' ' 25 3?' 56 '>4AA)' 769' : 432>9)' U < ' ' F)
8 25)' 84 >3 > ' 28 43?' 56 ' ;> 7 ' 7 > ' B> @' 54' @4' ;)
' 28)' ' 0=')
56 ' 43)' 8 23 3?' %56 ' CB> 43' 143 @ > @)' U < ' : ' A
25 56' B)' Q ' A23@' 5625' 25 56' B' 56 ' 362 ; 5235)-' CBA2 3 @ '
8 ; ' C ' F
(+ ' 56 ' 56 4B 23)' 764' 6 ' 72)' * > ' CCC : ' W ' > %A 1D
5 43 ' 43' 6 ' 143@ 15)' * > ' CCC C ' / N '
@ ' @ %% > 35' ?3 % 125 43 ' 255> ; 5 @' 54' 56 ' 74>@)' # 3 ' C ' F / '
7625' B 4BA ' 8 235' ; 9' 56 ' 5 > 8 ' 8 ; ' CC : ' FN)' % A% A 8 35' 4%'
&2A22 8 - ' B>4B6 19' 1431 >3 3?' 56 8=' &4&,+ B
' 7625' 56 ' 15' 72 ' @ 5 3? 6 @' %4>' 255 ' ' F ' > D
82><' 43' 56 >' 8 5 A25 3?' 4>' > + 15 3?' 2AA' 56 ' #4 B A)' &4&,+ '

@ 8 ' @ 1> ; @)' ; ' '
+ ' 56 ' > 216 >)' 7 > 55 3' ; 9' 4A4 8 43)' B43' ' > D
B 35231)' 35>4@' 54' 11A ' 14B ' 23@' 59A ' 4%' 56 ' ; 44<)' &4&, '
@ %% 1 A5 ' 3' 5' CBA2 3 @)' &4&, G 5' 5 216 ' % 5 > ' > 5> ; 5 43)'
&4&, ' @ A ? 35' 5 @9' 4%' 5' > 148 8 31 @)' &4&,+
+ # ' 345' 7 > 55 3' ; 9' 4A4 8 43)' 35>4@' 54' 11A ' 764'
56 ' 2 564>)' &-&,+ 345' 12343 12A)' &4&, ' 5 ' 8 4>2A 59' 8 16' 2B '
B>4 : @)' &4&,+
143489' 4%' # 4@' 3' 56 ' # 4 B A' @ B 3 25 43)' 647' ; > %A9' CB> D
@)' B6 ' ' / L)' > 8 2>< ' 3' 4>@ >' 54' 2' @ 5 315' 1431 B5 43' 4%)'
5)' &4&,
' ?2>@ 3' 4%)' @' B>4 : >; 2AA9' # "2 BA21 ' 4%' BA 2 >)' * 4 A'
' CB> 3?' 56 ' 62BB9' 525 ' 3@ >' 56 ' # 4 B A)')' A ' ' -
5> ' 4%)' B 5' %4>' S < 3? ' 4%' 56 ' 2 5)-' U < ' CCC ' ZN' ,+ P [
2' B4>5' 3' >2 ; 2' ' A C)' U < ' CC : ' F
T T ' 2' BA21 ' 3' 9> 2)' 84 ' ' 0
@ % 125 43)') 5' 2 A' 62@' 2' ? d25'> B 15' 54' 5)' ' 4>' C ' F ' 8 23 '
3?' 4%' 56 ' 74>@)' &4&, ' 647' @' ; 9' 56 ' B4 5A)' &4&, ' >>43 4 '
345 43' 4%' 56 ' 74>@' 3' 84@ 8' 5 8)' &4&, ' 23@' B6 ' ; ' ' 7625'
5625' @ % 125 43' ' 7 6 16' 5' 2 A' 4' 8 16' >?)' / 4>)' C ')F '
5' 64 A@' ; ' 4 >' @2 A9' 5 @9' 54' B>4 8 45 ' 5)' 4&,+ 7625' 5' 143 5 '
3)' B6 ' : ' ' 7625' ' 1435>2>9' 54' 5 . &4&, ' 647' 54' ; ' B>4D
@ 1 @)' &4&. + 23@' 647' B> : 35 @)' &4&,+
@ %9)' 2' 8 52B64> 12A' CB> 43)' $48 C , ' ' 7625' 5' ?3 % '
15 ' C ' / . ' $48 ' C : ' ')
' 7625' 5' ?3 %)' # 3 ' CC : ' ' 769' 56 ' 14 35>9' 4' 12AA @)'
&4&, ' ; 4>@ > 3?' 43' 7625' 14 35>)' &4&, ' ?3 % ' 56 ' 28 ' 14 3 '
5>9' 7 % ' >)' * @?' : ' N ' 143G > @' ; 9' 2 : @)' 3' % A% A 8 35'
4%' &2A22 8 - ' B>4B6 19' 8 ; ' CC : ' / L ' % ? >25 : ' 2114 8 BA 6 '
8 35' 4%' 56 ' B>4B6 19)' : >' '
6> 5' 148 3?' %>48)' CBA2 3 @' ' C %'
7 A@ >3 ' 4%)' 769' 56 ' < 3? ' 4%' >2 A' 23@' * @2A' B2
56>4 ?6' 5' 3' 56 >' 729' 2?2 3 5' 42 ;)' _ ' ! 3? ' '
' 162>215 >' 4%' 56 ' 325 43)' # 3 ' CC : ' N ' 769' 345' 54' ; '
8 @@A @' 7 56' ; 9' 56 ' >2 A 5 ' 43' 56 >' B2 2? ' 54' 23223)'
5 ' ' N ' 56 >' 143G 5 ' 769 8 35 43 @)' : >' / F ' 647' 56 9'
5> 25 @' 56 ' >2 A 5 ' 43' 56 >' B2 2? ' 54' 23223)' : >' ' 76 3'
2' @ = 59' 2BB4 35 @' 4 : >' 56 8' ; 9' 56 ' < 3?' 4%' * @26)' ' ! 3? '
CC ' W +' 647' B>4B6 1 ' % A% AA @' 3' 56 8)' * > ' CA C ' ' 56 >

2 K;1' IJ' I - ;' 9M2 @29.K' .II;ME

625> @' 4%'56 ' * 7)' U < ' CCC: ' 0 ' 3 : >' > 14: > @' 56 >' 1543 ' 5>9)' : >' /N' 76 3' 56 ' 328 ' C5 3? 6 @)' 2 ' 'N ' %% 15 2A' % >: 35' B>29 >)-' 7625' 5' @ 345 ' *28 ' : ' AM ' 54' 7648' B>4B >A9' 2BBA 12 ; A)' &4&, ' ? 3 >2A' 4 ; >:25 43' 43' 5+' &4&, +' U . ' 6 ' @ :4 5' > : > 31 ' %4>' 56 ' 3=8 ' 4%' #4@)' * @?' ' F ' 2' > B>4216' 54' 564 ' 6> 523 ' 764' ; 62: ' 7 56' >> : > 31 ' 54D 72>@ ' 8)' &4&, + ' , ' 56 ' 5 2543' 4%)' 3' 56 ' 5 8 ' 4%' *4 B6)' # 3 ' CA ' I+ 5 ' ÞB4 543' 3' B4 35' 4%' 1 >59)' &4&, +' *4 B6-' B4A 19' 7 56' > B 15' 54' 56 ' B 4BA)' # 3 ' C+: %' F/ ' 23@' 54' 56 ' B> 5)' , >' FF ' < 3? ' ' 4%' 5' 769' 345' 8 3543 @' %>48' 56 ' 5 8 ' 4%' 4 ' 5 AA' 4A4843) / 3?)' ' / ' 1 A ;>25 @' %4>' 7 @48)' / ! 3? ' : ' ' 3' 4A4D 843-' 5 8 ' 2' BA21)' 4%'> % ? ' %4B' @ 1435 35 @' B > 43 ' 4%' >2 A) / ! 3? ' C ' N ' 2AA 43' 4%' $2; 62< 6' 3' 148B2> 3?' 5' 54' 2' ;>4< 3' > @)' F' ! 3? ' C: ' F/ ' 769' B>4%23 ' 7> 5 > ' @4' 345' 8 3543' 64> ' 56 >)' =CCC ' /)' #4@- ' @ > 1543 ' > B 153?' 5)' * >' CA ' ' * > 826-' B>4B6 1 ' 2?2 3 5' 5)' 76 3' @ A : > @) ' * >' CA: ' F ' 3' 7625' 5 8 ' 5' > 14: > @' %>48' ; 162@3 UU2>-' 3:2 43))' : >' F ' 2;4 3@ @' 7 56' 64>)' U < ' C: .' /0' ; D 128 ' 56 ' ;2 5' 4%' < 3?@48)' U < ' CC C ' /0' @ B 3@ @' %4>' % >5 A 59' 43' 56 ' 4: >%A47 3?' 4%'56 ' A)' U < ' CCC ' /F' >2 AD 5 ' 54' ; ' 12>> @' 56 > ' 12B5 :)' 4 ' : ' AM .' C ')' M)' 5' >2 3 ' 56 > ' A@48)' C4@ ' C ' /L' .' V 16 ' C : ' /L T ' Q 2%5 >' 56 ' 8233 >' 4%' ?9B5-' CBA2 3 @ ' ' FN)' FM ' ' T ' [' 54' > 5 >3' 54' 5-' CBA2 3 @)' 4 ' : ' / ' > : >' 4%)' 84 5' B>4;2;A9' 56 ' A)' # 3 ' C: ' /L ' , ' ?> 25' @4A25 >)' C4@ ' ' / ' : 5 @' ;9' B 1 A 2>' BA2?)' : >' F ' 769' 56 9' 4 ?65' 54' 62: ' > B 15 @' 56 ' # 4@' 4%' 56 ' ;> 7)' C4@ ' : ' ' 7625' 3% > 31 ' 56 9' 64 A@' 62: ' @>273' %>48' 2>43- ' >4@)' C4@ ' : ' /F' 74> 6 BB @' 56 ' A)' : >' F ' @ A125 ' 3' 56 >' 4 572>@' 62; 5)' &4&, ' A44< @' B43' % 6' 2 ' 21> @' 23@' 74> 6 BB @' 56 8)' &4&, ' 2%% 15 @' ?> 25)' C5 >32A' B > 59)' C4@ ' : ' AM ' 6 7 @' 23' @4A25>4 ' > ?2>@' 54' %A)' : >' F/ ' 5 8 @' 5' 2' B>4%2325 43' 54' 21> % 1 ' 1255A)' : >' FM ' 6 A@' 56 ' 4C)' 147)' 23@' 456 >' 23 82A ' 3' @4A25>4 ' 5 825 43)' C4@ ' C ' L .' 5 ' : ' /L ' 62@' 8239' ?4@ ' BB4 @' 54' B> @ ' 4: >' 8 ' ' @ 1 3)' C4@ ' C ' L ' 21> % 1 @' 6 823' : 15 8)' : >' / ' 7 > ' D B > 554 2;4: ' 2AA' B 4BA)' : >' /L ' 74> 6 BB @' 56 ' A 8 35)' : >' /L)' F ' =23@' 56 ' 3)' C4@ ' C ' FF ' 56 >' 143 5 >325 43' 25' 56 ' BA2? ' 4%' @2><3 ' 5>43?A9' > B> 35 @)' : >' F ' @> 7' 43' 56 8D A: ' 56 >' BA2? ' ; 9' 5 6 >' 3)' C4@ ' C ' 0' 84 5%>235 1<' 3' 56 >' ?> %)' : >' M ' ?> :4 3 ' 4%' 56 >' B 3 68 35.' C4@ ' C ' I+ 64 ' @ 4>@ > @' 3' 56 ' $ @' 2)' C4@ ' C : ' F0)FW ' > %A 15 43 ' 56 > 43)' : >' FW ' 3' 7625' 56 >' @4A25>9' 143 5 @)' 5' : ' AM ' 1> B5 >2A' 2AA 43 ' 54' 56 >' @4A25>9)' &4&, ' ?>4 3 ' 4%' 5)' U < ' C: ' FM ' 56 %' B47 >' @ 1> ; @)' ' C: ' ' 56 >' 1 548' 4%' 64A@ 3?' 2' B ; A 1<' 5> 2A' 4: >' @ 1 2 @' B > 43)' F 6>43 CC: FW ' 2' B> 5 3@ @' ?9B5 23-B>4B6 5)' @ 1> ; @' 15 ' CC ' L 5@' 769' 6 ' 74> ' 6 ' 74>@' 43' 56 ' > ?65' @)' * @?' ' /M ; ' 8 2? ' %>48' #4@' 54' ?A43)' : >' F ' 3' 7625' A ?65' 6 ' < AA)) 3?' 4%' ?A43' 54' ; ' 143 @ > @)' : >' F/ ' ! ' 5 ' 5 2543)' F' ! 3? ' ' F' + ' :2AA 9' 4%)' @ 1> ; @' %>48' 2' 84@ >3' 5>2: AA >)' / 28 P C: ' F + ' < 3?@48' 4%)' @ 1> ; @)' ' CC ' F' .' * 7' CA C ' N ' 1 A ;>25 @' %4>' 2>16 >)' * >' CA C ' 0' 7625' 14 35>9 5' 148B> 6 3@)' 23 ' : ' F + ' 4>' + ' 5A ' ?> 25' 5>2@ ' 12>> @' 43)' %>48' 56 31 ' ; 9' 56 ' * 7)' / ! 3? ' C ' ' > ; A5' ; 9' U2> 26)' F' ! 3? ' C : ' FF ' 56 ' 8 B4>5231 ' 4%' 56 ' 32:2A' 525 43' 43' 56 ' $ @' 2' 6 73)' &4&, ' 56 ' A4 ' 4%' 5' : >9' > 4 ' 54' 56 ' * 7)' F' ! 3? ' C: ' M ' 56 ' ?> 25' 5>2@ ' 56 9' 12>> @' 43' %>48' 56 31)' &4&, + ' 23@' '> 82>< ' 43' 56 >' B>4B6 9 3?' 8 ; ' C ' FM ' A@ >)' 2' 328 ' 4%' @ ?3 59' 25' 2AA' 5 8)' # 3 ' /' W ' T T ' 4>' > ;95 >)' ' 4%' 56 ' 74>@' 3' 56 ' 7' 528 35)' 15 ' C : ' F .' CC ' /L' .' 6 A ' ' / .' / 8 ' : ' /)' / W.' / 5 ' : ' / ' > 2 43 ' %4>' 2' B2>5 1 A2>' 35 >B> 525 43)' / 8 ' : ' / ' > 82><' 43' 5' 5 >-' 12AA 3?' 6 8 A%' 2A 4' 23' A@ >)' /) 5 ' : ' / ' 769' 2' 5 5A ' 52 ; A ' 54' 56 ' B4 5A)' F' *463' / ' ' A@ >)' 3' 56 ' A@' 528 35)' 769' 4' 12 @)' 5 ' C C ' /F' 2>A9' 4> ? 3' 4%' 56 >' 2 564> 59)' &4&, ' 23@' 5 ' 1435 3 231)' &4&, + ' 3' 54>9' 4%' 23326' > % >> @' 54)' * >' CC C ' F T aT ' 4%' 56 ' B 4BA)' 764' 2> ' 8 235' 255 ' CC ' F ' 8 23 3?' B2 54> ' 4%' 56 ' : >2A' %6 >16 ' 15)' + :)' F ' + *28 ' : ' / N.' A5' ' 0' 56 9' > 1 : =' > ? A2>' 4>@ 325 43)' 15 C : ' F (6 * 2+' " #')('* ' < / 4 2< / '%)' K / * + 4 + !' 4 1 < * 2)%' 1' B / "' %2 *' & * %1)!' <)+ ' T T' %4 >' 23@' 57 359)' ?3 %9 3?' 56 ' 8 3 5 > ' 23@' B2 54> ' 4%' 56 ' 7' 528 35)' $:)' : ' N' 769' 1A2@' 3' 76 5 ' 7 56' 1>473 ' 4% ?4A@)' &4&, ' 769' 56 9' 12 5' 56 >' 1>473)' : >' / / ' [+ - 6/' 769' 148 823@ @' 54' 52< ' 56 ' 1 3 >' *' ! 4>26' 23@' 6 ' 148B239' 8 ; ' C: ' W' 769' 39 5 @' 7 56' 2>43- ' ?2>8 35 ' 8 ; ' 11' : ' /)' 769' 8 3543' 82@ ' 4%' 6 ' 8 3 5 > 3?' 3' 2>43- ' 5 2@) 5 ' 1 ' M ' 6 ' 162>215 >' 143 @ > @)' F' 21 ' : ' / A 15)' 8 23 3?' 6> 523 ' 3' ? 3 >2A' 255 ' CC : ' FF.' " < C: ' W T T ' %4>' 7625' B > 43 ' @)' $48 ' : ' L.' / 5 ' ' F' 764' 59A @' 4' ; 9' 56 ' B4 54A 12A' ' 256 >)' / 5 ' ' F' 7625' 56 ' B4 5A ' > % > ' 54' ; 9' 56 ' 5 >8)' &4&, ' B>44% ' 4%' 6 ' 8 23 3?' %>48' 56 ' 764A ' 5 34 >' 4%' 6 ' B 5A)' &4&, ' 647' 56 9' 829' %2 A' 4%' 23' 35>231 ' 354' 6 2: 3)' F' 5 ' ' / . T T ' 4%' #4@)' 647' B4< 3)' 255 ' CC ' / N.' 4A ' ' /F' 3 ' 34' > ?2>@' 54' 2; 4A 5 ' A 15 43)' &4&, ' 769' 6> 523 ' 12AA @' Q #4@-' A 15)-' 5 ' ' / ' 6> 523 ' 345' 2; 4A 5 A9' 164 3' 54' 5 >32A' A %)' *463' : ' W [' A 15 @' 54? 56 >' 7 56' 94 -' CBA2 3 @)' / 5 ' : ' / A 15 43)' [' 56 ' A 15 43)-' 764' 4' 12AA @)' $48 ' C ' W ' 345' 4%' 3@ : @ 2A ' 54' 5 >32A' A %)' ; 5' 325 432A' A 15 43 B4< 3' 4%)' $48 ' C ' FL ' 574%4A@' 4%' 56 ' * 7 ' 8 35 43 @' ; 9' 5' 2 A)' &4&, ' 4B 3 43' 4%' 56 ' * 7 ' 1431 >3 3?' 56 >' 473)' B6 ' N ' > 2 43' 4%' 5' 2 A-' @ 1A2>25 43' 1431 >3 3?' 5625' 4%' 56 ' # 35 A)' &4&, ' 56 ' A255 >' 345' 2' 1 > 59' 2?2 3 5' %2 A 3?' 4%' 2AD :25 43)' : >' 0 ' 4%' 56 ' 6 A BB 23 ' 54' 5 >32A' A %)' 34' 4B 3 43' 1431 >3 3?' 5' CB> @' ;9' 5' 2 A)' 6 A ' ' M ' 1435>4: > 9' 1431 >3 3?' 5)' 76 3' 3<3473)' / 6 ' ' N ' ' ' 4%' #4@.' 7625' 5' 8 23)' / 6 ' ' N ' 34' 2; 4A 5 ' A 15 43' 35 3@ @)' &4&, ' 8 A2>' 54' 5625' @ 1> ; @' ;9' 4)' &4&, ' 769' ' 525 @' 54' 56 ' 6 2A43 23)' &4&, + A 8 35)' 1 > 843 ' 4%' 56 ' A2 7' 769' 12AA @' [' 7 2<' 23@' ; ??2>A9' A 8 35)-' #2A ' : ' J ' 4%' 56 ' 74>A@)' 769' 56 ' * 7 6' > 5 ' 7 > ' 4' 12AA @' #2A' : ' H+ A B6235)' 56 >' 325 > ' @ 1> ; @)' / 21 ' ' /W' >> 525 @' ;9' 14A4 >' 4%' ;A44@)' / 24 ' : ' N P14: > @' 7 56' 2>84 >)' : >' N ' A B6235 2)' B>4;2;A9' 56 ' @ 2 ' 35 3@ @' ;9' 4)' 5' CC: ' 0' @ 1> B5 43' 4%' 5)' &4&, + ' *4;-' 148 BA2 35' *4;' 'W' 5' %% 15 ' *4;' ' / .' : ' 0.' CCC /W' 255 3@ @' ;9' @ 5> 3?' @> 28 ' *4;' : ' N' @ 256' 12 @' 3' ± 5' ;9' %%4125 43' *4;' C: ' / ' 2' 98B548' 4%' 5)' *4;' C C)' F ' 56 ' < 3' 5 >3 ' ; A21<' *4;' CCC)' L + # ! # ' > : >)' 5 ' 84@ >3' 328)' / 21 ' C ' W + ' @ 1> ; @' 2 ' 55 3?' #' 23' A : 25 @' 25)' 23@' %4>' 7625' B > 0 B4)' / 28 ' ' J ' 6 ' 544' ?> 25' 3@ A? 31 ' 54' 6 ' 16 A@> 3) / 28 ')' /F)' F ' 6 ' B> 31 B2A' C1 '%4>' 56 ' %2 A5)' &4&, ' 3 ' 14A@3 ' 4%' 6 ' > B>44%' 54' 56 8)' &4&, ' #4@-' , .% ' 3' %2 : 4 >' 4%' 6 ' %28 A9' > : 4< @)' : >' ' 6 ' 6 8 ; A ' ; 8 43' 54' 56 ' D : 3 ' 7 AA)' / 28 ' ' /L' 6 ' 148 8 3@2 ; A ' ?> %%4>' 56 ' A4 ' 4%' 56 ' 2><)' / 28 ' : ' /L' C5 3 25 43' 4%' 6 ' 4%% 31)' &4&, ' 6 ' ? 3 >2A' 162 -215 >)' 23@' > %A 15 43 ' 43' 3& ' 6 54>9)' &4&, + A ' 6 ' > B>44%' 4%' 2: @)' CBA2 3 @)' / 28 ' C : ' FL + ' 769' 56 ' < 3?)' 4%') / - ' 12AA @' 6 8 ' * 64 2< 8)' ' ! 3? CC ' N + ' * 7 6' 5>2@ 5 43' 5625' 6 ' 72 ' 54' 148 ' 3' B > 43' ; %4> ' 56 ' 26)' 2 ' : ' 0 .' 255 ' C ' / N.' C :)' / ' 764' 5625' A 2 ' 72 ' 5625' 72 ' 54' B> 1 @ ' 56 ' 26)' 2 ' : ' 0 ' 34' % 5 > ' A 2 ' ' 54' ; ' CB 15 @' ; 9' 6> 523)' : >' ' ' + / + ' @4 ;5 ' 76 56 >' 6 ' 72 ' 6 ?6' B> 5)' ; ' C ' N ' 56 ' 123@2A' 6 ' ; >4 ?65' 43' > A ? 43)' : >' 0 ' + - ! ' ; >2628 - ' 5 72>@)' 764' 6 ' 72)' # 3 ' C: ' F ' 43' 4%' 4)' 525 ' 4%' 6 ' B4 5 > 59' 3' 4A4843 - ' 5 8)' 5 CCC : ' / 7 69' 12AA @' 56 ' 6 ; 5)' / ! 3? ' C: ' / ' ; ? 3 >2A' 162 ' >215 >)' &4&, ' @ 1A2> ' # 4@- ' + @? 8 35 ' 3' ; > 3? 3?' 2' %2 8 3 ' 43' 56 ' A23@)' &4&, ' 3' 7625' 3 ' 56 ' 12A2 8 59 72 ' ; >4 ?65' 43' ; 9' A +26- ' B>29 >)' &4&, ' 769' % @' ; 9' 56 ' >2: 3)' : >' M ' 56 ' 7 @47' 74823' 47' @ B4 @' ; 9' # 4@- ' B>4 : @ 31 ' 54' 35 >52<' 6 8)' : >' J ' 56 ' 8 >21A ' 4%' 56 ' ; 2>> A' 4%' 8 2A)' : >' AM ' 6 ' 1 >2? ' 3' ?4 3?

A' "2' 'A?' #2*V4&)('2*#*22*6')"'-')' %4(!' &4&,' +)2%10*' <"1<(4+'"1+'62%B1'#2"&'/'+'B"26+!' &4&,' 2*%('K42K"2)'"#')('*&!' &4&,')/*'2' <"164<)' <"1)2%+)*6' B')/')' %4(+!' F' "2' '5 'F' B/*2*'1' '1#*' '"42')"')' %4(!' F' "2 'C' (D+')/*'#'K2*)*1<*+')"' 6'+'1)*2*+)*61*++!' F' "2'R' ' /F' /"B'K4)')"'+/%&*!' &4&,+

'2A '5 216 >' 4%' 56 ' #2A25 23)' 54' 7625' 5' 2 A' 255> ; 5 '56 >' U 2A' %4>' 56 ' A27 ' #2A ' : ' /F

'!- ' 7625' 15 ' 4%' 35 3@ @)' F' 5' ' /' 647' 56 >' : 1 4 'A: ' 2%% 15 @' 6> 5 23 ' 3' ? 3 >2A) ' : >' [' 56 >' 4 5 3525 43)' 69B4D 1> 9)' Q1' 5' %4>56' ; 9' %4>1 ; A ' 148B2> 43)' : >' /W)' 3@ >' 7625' 328 ' 5' 2 A' @ 1> ; '56 8)' / *463')' /L' 7625' 8 235' Z; 9' 56 ' B6>2 '[' 56 9' 7 35' 4 5%>48')' ; 5' 56 9' 7 > '345' 4%')-

' 3" / 1''' ' K%2)'<4(%2' 1%&*+'4 1 6*2' B / '</')/* 'B*2*'.1"B 1! &4&,+

'2A 644@' B 5' %4>' %2A '?4@)' * >' C 'F0

5 'B >3 1 4 3 '54' 41 59)' B6 ' : ' F0

'2 8)' B > 5' 4%)' 54' ; ' C1A @ @' %>48' 56 ' 8 45 : ' 4%' 215 43 ' 255)' : ' /'

'2 8 A 2>' B > 5)' 56 ' 3 ' 31 >52 3' " : ' C C ' ' B > 43 ' B> D 5 3@ 3?' 54' 56 8)' 7 69' B 3 6 @' 7 56' @ 256 ' " : ' CC ' FW' 7 69' 7 4 8 3' 8 35 43 @' 3' 56 ' A27' > A25 3?' 54' 56 8)' &4&,' 564 '5625' @ 2A5' 7 56' 56 8' 7 69' 345' 54A >25 @)' / 2 8 ' CC: '

'2 8 A 2> 59' 7 56' 33 > ' 3@ >' 2AA' 1 >1 8 5231 '54' ; ' 2:4 @ @)' * @ ' : >' F ' AA 5>25 @' ; 9' 23' 2AA 43' 54' 56 ' * 7 6' A27)' &4&,+

'2 8 A9)' G :2A 35' 54' B 4BA)' * >' ' /0Z ' /N.' 1' ' .' 8 4 ' ' /' '

T T' '4%' 7648' 56 ' 764A ' %2 8 A9' 3' 6 2: 3' 23@' 2>56' '328 @)-' CBA2 3 @)' B6 ' /0

' T ' B>29 >)' 7 69' 54' ; ' 4; >: @' 4A ' : ' F

'2 8 A)' G :2A 35' 54' < 3?@48)' 26 8)' ' N

'2 8 3)' C1 :)' %4> 54A@' " : ' CC: ' F ' 7 6 3' % A% AA @)' &4&,' 56 '9 2> ' 4%)' 8 35 43 @' 25' F' 2 8 ' CC: ' > 1431 A @' 7 56' 56 ' 21D 14 35' 25' / 6>43 ' CC T F' 2 8 ' CC: ' / ' 2114 35' 4%' 43 ' B> D 1 @ 3?' 56 ' @ 5> 15 43' 4%' * > 2A 8)' 255 ' CC: ' W'

T T ' 7 69' B 5' %4>' @ 2>56' 4%' 3 5> 15 43)' 8 4 ' : ' / /

'2 8 4 ' 8 3)' 148 8 84>25 @' 3' 56 '5 8 BA ' 23@' 932?4?)' 1 ' 1A ' CA : ' / ' .

'23 ' 23' 3 5> 8 35' %4>' 7 3347 3?' 14>3 ' 255 ' ' /F

'2325 1 8 ' 345' 2' B>44%' 4%' j >' A4: 3?' #4@)' / *463' : '

T T 23@' G356 2 8)' 647' 56 9' 62: ' ; 3' ;>4 ?65' 354' 56 ' 6 >16)' / *463' ' FW' 143 @ >25 43 ' CB4 3?' 56 >' 7235' 4%' %4 3@25 43' 3' 1> B5 >)' &4&,+' ' 356 2 5

'2>' 2;4: ' 2AA' 6 2: 3)' 7625' 8 235' ; 9' 6> 5- ' 2 1 3@ 3?' 56 56 >)' ' B6 : ' /

'2>56 3?)' 56 ' : 2A ' 4%' 56 ' 14 3' 4' 12AA @ ' 255)' C)' FJ

'2 5)' 56 ' @ ?3' 4%' 6 8 26' 23@' U>2' AA' B>41A2 8 3?' 43)' 6 C ' ' 3' 7625' 729' 2AA9' 4; >: @ ; 9' 56 ' * 7)' 56 ' : ' '

T =T ' 4%' 56 ' : 356' 84356)' 43' 7625' 4112 43' 4; >: @ * >' aP' 7625' ' 8 235' ; 9' 2315%9 3?' 43)' *4 A' ' /N

' 4%' 56 ' %4 >56' 84356' CBA2 3=)' V 1; ' : =

56)' 8 23 3?' 56 '?> 25' @29' 4%' CB 25 43 ' 15 ' CC: ' I

'2 5 3?' 345' %4>; @@ 3' ; 9' 6> 5)' ; 5' 56 ' 8233 >' 4%' 5' > ? A25 @' 255' : ' ! ≠ 769' 345' 3+4 3 @' ; 9' 6> 5' 43' ' @ 1 BA ' 255' C' '

7625' 5' ?3 %)' 23@' 769' C5 3@ @' 54' 1255A)' *43 ' ' W' 56 2A' @29 ' 4%' %2 5 3?' 28 43?' 56 ' * 7)' " < ' C: ' /F' 4; >: @' 43' 4A 83' @29 ' 5 AA' 3443' ; 9' 56 ' * 7)' 15 ' ' /0

' & *%1'10' "#')' '1')/*'%<<"41)'"#')' %4(+'+/'KB2*<.' <)+7 &4&,' 3% > 31 ' 7 56' > B 15' 54' 56 ' #4 B A)' &4&,+

CC: ' '

'2 5)' @' 54' ; ' B>41A2 8 @' 3' B > A4 ' 5 8)' F' 6>43 ' CC ' ' @ %% > 35' 3 5231 ' 4%' 5)' &4&,' 647' < B5' 3' 2 5 >3' 14 35> ' ' : ')' N

'25)' 7625' 345' 54' ; ' 25 3 ' " : ' ' /W' > 2 43)' %4>' 56 ' B>46 ; 5 43)' &4&,' 3' 7625' 3 '56 '5 >8' @' ; 9' 56 ' ;> 7)' 5' CCC ' /N' ']]

'256 >)' 647' 56 ' 5 >8' ' 48 5 8 ' @' ; 9' 56 ' ;> 7)' # 3 : ' F ' 3' 7625' 3 ' #4@' '4 >' '256 >)' 255 ' : ' J' 769' 7 ' 29)' Q' *$%`' 0 * ' Q' / `' &4&,' 3' 7625' 3 ' 343 ' B43' 2>56' '54' ; ' 12AA @' 4 >' %256 >' 255)' CC ' J)' / ' ; A @3 ' 4%' 62: 3?' #4@' %4>' 4 >' %256 >)' " < ' C ' F' 328 ' 4%)' 2BBA @' 54' #4@)' 3' 7625' 3 '52< 3)' / 4>' : ' M' 647' @' 3' 2' B2 2?' 4%' 5' 2 A)' &4&,+

T T PB 5' %4>' ?>23@%256 >)' * >' CC: ' W ' 23 ', ' F

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T T : >A2 5 3?)' 56 ' 5 5A ' CBA2 3 @)' ' C ' M

T '4%' A ?65)' 769' #4@' 4' > B> 35 @)' *28 ' ' /W' 8 23 3?' 4%' 56 ' CB> 43)' [' 5625' 7 56' 8' '34' :2> 2;A 3)' 3 56 >' 62 '' @47' 4%' 5 >3 3?)-' &4&,' B>215 12A' 3% > 31 '%>48' 56 '@415> 3)' &4&,+

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' 769' >2 A 5 ' 12AA @' 4' 7 56' > B 15' 54' 6> 5 23)' 4> ' / ' 764' 8 235' ; 9' 56 8)' F' 5' ' N

'256 >A9' 2%% 15 43' 4%' #4@)' 64 ' @ 843 5>25 @)' ; ' C ' W' L' ' '253 ' 4%' 56 ' 2>56' CBA2 3 @)' # 3 ' CC: ' FL

4%' 56 ' 6 2>5)' 7625' 5' 8 BA +' ' 1C C ' W ' '

+ 1 ' 4%' 56 ' 4A : ' 5>)' 769' 4' 12AA @)' 48 ' C '

'2 A5)' [' 7 564 5' %2 A5)-' 8 23 3? 23@' 2AA 43' 4%' 56 ' B6>2 ' $: C : ' 0 ' '

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' 2>)' #4@' 56 ' 43A9' B>4B >' 4; + 15' 4%' 5' *4; ' CCC: ' FN' Q' 3 % ' P 34' % 2>' 3' A4: - CBA2 3 @)' / *4A 8 : ' /L' > %A 15 43 ' 43' 56 ' B2 D 2?)' &4&,+

23@' @ A ? 31 ' 3' 4 >' B > 5 2A' 72>%2> ' 3%4>1 @' %>48' 56 ' CD 28 BA ' 4%' 5' 2 A)' / 6>' C ' FM

T T ' B 5' %4>' > : > 31 ' *4; ' : ' M' B 5' %4>' @23? >)' * >' CA: ' 0' B 1 A 2>' 3 ' 4%' 5' ' CC : '

T '4%' #4@)' 2 45 : ' 54' 5' ?? 5 @' ; 9' 56 ' : 3 ' B >% 15 43) P 5' : ' / ' > %A 15 43 ' 43' * 4; ' CC: ' FF

4%' 56 ' " 4>@' B 5' %4>' 764A %' @ 59' 4%' 823)' >4: ' ' W

4%' #4@)' @' 54' ?3 %9' > A ? 43' 3@ >' 56 ' A@' 528 35) $48 ' ' FM ' 7625' 5' ?3 %)' &4&,+

4%' @ 256)' 764' ; + 15' 54' 5)' ; ' /0' 647' 6> 5 23 ' @ D A : > @' %>48' 5)' &4&,+)

' 2>% A' 23@' 3 ; A : 3?)' CBA2 3 @ ' $: ' CC ' L)

' 2 5)' 84@' 4%' @ 5> ; 5 3?' 3' 56 ' 2 5)' # 3 ' CA ' N' 7625' CD B> @' ; 9' 2AA ?4>9' 4%)' >4: ' C ' / ' 82 5 >' 4%+' 2843?' 56 ' 23D 1 35)' 11A ' CCC ' /

T '4%' 52; >321A)' 76 3' < B5' 8 ; ' CC C ' / F' 769' 4; >: @' 7 56' 3 8 >4 ' 21> % 1)' &4&,' 3 8 ; ' 4%' 23 82A '56 5' 4%% > @)' ' ': >' / ' 647' 4; >: @)' 5' C: ' ' 4112 43' 4%' 5' 3 55 D 543)' &4&,' 14>> B43@ 3?' % 5 :2A' 3' 56 ' 6> 523' 6 >16)' &4&,+

? %L' 4%' 3A 2: 3 @' ;> 2@)' 647' 4; >: @)' 5' C: ' ' 4112 43' 4%' 5)' &4&,' 7625' ; 55 5 @' %4>' 5' 3' 56 ' 6> 523' 6 >16)' &4&,+

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' 2 5)' >256 >' 4A 83' 2 8 ;A ' " : ' CC ' F' 7625' 56> ' % 2 5 ' 4; >: @' 4A 83A9' ; 9' 56 ' * 7)' 5' C ' /M' 4112 43 ' 4%' 56 8)' &4&,' 62: ' 56 >' 14 35 >B2>5 ' 3' 56 ' 6> 523' 6 >16)' &4&,' 3% > 31 ' %>48' 56 8' 7 56' > B 15' 54' > A ? 4 ' % 5 :2A)' &4&,' 769' 82A ' 43A9' 7 > '4; A ? @' 54' ; ' B> 35)' 35 3)' 543 ' 4%' 56 8)' &4&,' ≠ ' ' 5 :2A

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T' ' * 7 6)' @ %% > 35' 4B 3 43 ' 4%' 56 ' ; A : 3?' * 7 ' 2; 4 5' 56 8) $48 ' C : ' 0

TTT' B2>25 43' 4%' 748 3' %>48' 8 3' 25' 56 8' 3' 56 ' 2 5)' * >' : N' @ 5 315 43' 4%' 25 ' 25' 255)' CC '

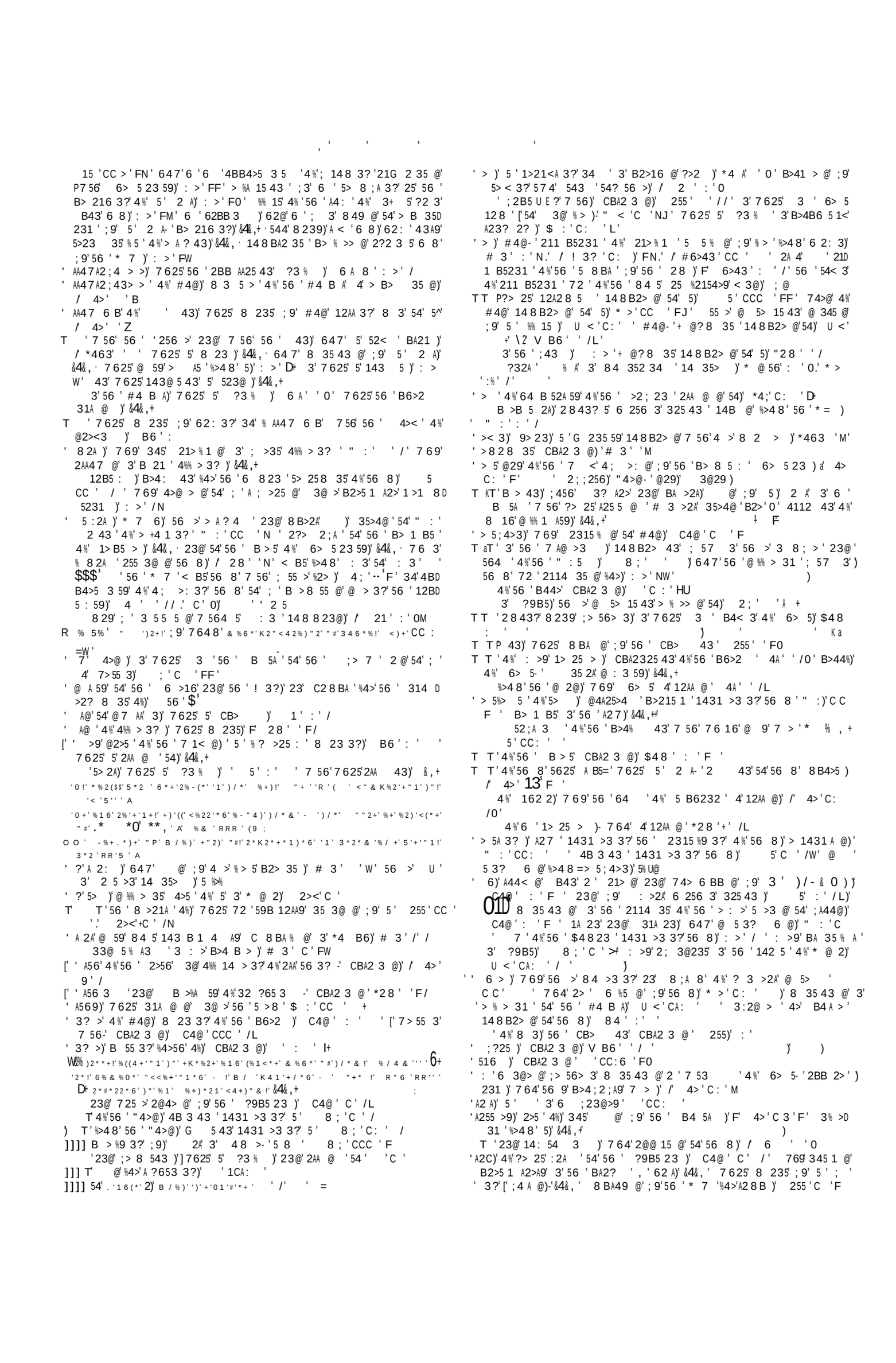
' A 3?')' 23' 31 >52 3' 1> 5 > 43' 4%' 4 >' 143@ 5 43)' / *463' ' .' ' ' 43@ 5 43)' 56 ' ?44@3 ' 4% \

' 5)' 769' 2A 729 ' 72 6 @' 3' 56 ' 2 5' 2%5 >' 5>2: AA 3?)' # 3 ' C: ')' * @?' C C ' F / .' F' 28 ' C ' ' 55 3?' @47 3' 25)' CBA2 3 @=' 5' CCC ' ' 7 56 ' > % > 31 ' 54' 23' 2 5 >3' 1 543>)' &4&,' ≠ 7625' 56 ' ;> 7 ' 31A @ @' 3@ >' 56 ' 4>@)' ' :A ' F

[T ' 64@' 7 5A ' 56 ' B> B2>25 43' 4%' 56 ' #4 B A' 4%' B 21 -' CBA2 3D @)' B6 ' : ' /0' .

' ?3 @' A B)' CBA2 3 @)' ' C: '

'R . 8 ' 6 ' 6 54>9' 23@' 162>215 >' 15 ' CC ' FN ' 647' A43?' 6 ' 62@' ; 3' ?4: 84 >)' 15 ' CC : ' /)' 6 ' 3+ 5 1 ' 23@' 31435 3 31)



. % ' B 5A ' 54)' @ % > 1 ' 4%' 4B 3 43' 1431 >3 3?' 56 ' @25 ' 4%' 5)' 35>4@ ' 7 6 3' B>4 ; 2 ; A9' 7 > 55 3)' &4&, ' 4112 43' 23@' 4 ; + 15' 4%' 5)' &4&, ⁄ B2> ' F ' 5 ' 1435 35)' &4&, ⁄ B2> ' ' 7 > 55 3' ; 9' 5' 2 A- ' 47 3' 623@)' &4&, ⁄ B2> ' N ' > 82>< ' 43' 56 ' @415> 3 ' 4%' 5)' &4&, ⁄ B2> ' >⁄ 647 ' 5' @ %% > ' %348' 56 ' B 5A ' 54' 56 ' $4823)' &4&, ⁄ B2> ' M)' W ' > 8 2><' 43' 5 ' ; 3?' 7 > 55 3 7 56' 5' 2 A- ' 47 3' 623@' # 2A ' : ' ' 769' 5' 2 A' 2A5 > ' 6 ' 59A ' 7 6 3' 6 ' 2@@> ' 56 8 ' # 2A ' ' D⁄ 56 >' > B 15' %4>' 5' 2 A' 35 8 25 @' ; 9' 2' : >9' > 8 2><2 ; A ' B6>2 ' # 2A ' : ' / N ' > 8 2>< ' 43' 56 ' 8 233 >' 3' 7 6 16' 5' 2 A' 2@@> ' 56 8)' : > ' /)0' 7 69' B2AA @' ; 9' 5' 2 A' 6 ' A 55A ' 16 A@> 3)' : > ' 8 B625 12A' 8 233 >' 3' 7 6 16' 5' 2 A' B 2< ' 4%' 6 8 A%' 54' 56 8 ' # 2A ' : ' F ' 7 69' 56 >' 255 35 43' 12AA @' 54' 56 ' 162>215 >' 4% 5' + 5 %9 3?' %2 56)' : > ' M ' > 82>< ' 43' 56 ' @ 3 43 ' ; 57 3' 56 ' * 7 6' 2> @ # 35 A ' 143 : >5 ' 28 43?' 56 8)' : > ' / ' >4B 23)' 764' 56 9' 7 >)' / 21 ' : ' F

. . % ' 764' 564 ' 7 >)' A2 ?65 > @' ; 9' A25)' " < ' C ' / ' > 82>< ' 43' 56 ' B4 5A ' ; 3?' <3473' 54' ; ' 16 ' 15 ' W ')')

. . ' 5 ' 5 25 43 ' 255 ' ' FF ' 56 ' > B>4216' 5' A29' 3@ >' 28 43?' 56 ' * 7)' *463 : ' 0F ' > 82>< ' 43' 56 ' 26' 345' ; 3?' CB 15 @' 54' 148 ' %>48 ' 5)' &4&, ⁄ : > ' N /

T T ' 4%' 56 ' 325 43)' CBA2 3 @)' # 3 ' C : ' /

T T ' 4%' 56 ' # 35 A)' 769' 4' 12AA @)' / 21 ' : ' /0 ' 76 > ' 5 25 R' 255 ' : ' /0

2' 4%)' @ 1> ; @ ' 255 ' : ' ' ' J #

#2AA)' 647 ' @)' 5 ' CC C ' /n ' B>4B >' ?3 % 125 43' 4%' 56 ' D ; > 7 ' 74>@)' &4&, +

L' ' 4%' 2' ; 2 5)' 769' B4 > @' 43' 3 ' ?>4 3@ ' *4 ; ' C : ' /

T T ' 4%' % 6)' > 84 : 3?' ; A 3@3)' 143+ 15 > ' > B 15 3?' 5)' 4 ; ' : ' F '

T' * ' ; 55 >3)' 56 ' CB> 43' AA 5>25 @ ' 15 ' : + ' F

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#2AA47)' 7625' B 3 68 35' B>4 ; 2 ; A9' 35 3@ @' ; 9' 5)' 56 ' : ' '

. . ' 2114 35' 4%' 6 8 ' 15 ' : ' N ' 56 ' 2@ : 2352? ' @ > : @' %>48 ' 6 ' BB4>5' 54' 6> 5 23 59)' : > ' N

% ' 7625' ++ 4BA ' 56 9' B>4 ; 2 ; A9' 7 >)' U < ' CC : ' '

#2> ; ' 4%' 56 ' C ' 3' 56 ' 68 16)' 647 ' > ? A25 @)' ' 4> ' C ' '

#2>@ 3' 4%' @ 3)' 5 ' 5 25 43)' # 3 ' ')' / ' 2' 25' 4%' @ A ?65)' : > ' \⁄ 23' 8 ; A 8 ' 4%' 56 ' 6 >16' 43' 2>56)' # 3 ' ' FN ' '

)V##

T T ' 7 564 5' 725 >)' 3 >?9' 4%' 56 ' 148 B2> 43' 54' 5' CBA2 3 @)' ' '

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#2>8 35)' 647 ' @ 5 3? 6 @' %>48 ' >4 ;)' 1 ' ' ' 56 ' % A% A 8 35' 4%' B>4B6 19)' 3' 56 ' @ : @ 3?' 4%' 6> 5-)' ' CC ' R' ' P

#2>8 35)' BB >)' 2AA9' A %5' 25' 648 ' ; 9' B > 43 ' 3' 56 ' % A@ ' 255 ' CC : ' \⁄ 12 5' 27 29' %4>' 56 ' B >B4 ' 4%' 82< 3?' 62 5)' 2><' C ' 0 ' =@ 1> ; @' 23@' @ 5 3? 6 @' %>48 ' 56 ' 33 >' *4 ; CC ' D⁄' ⁄' A

#2>8 35)' 74>3' ; 9' 56 ' ; > 7 ' A43?=' 23@' %A47 3?)' ' 28 ' C ' N 56 ' 1 55 3?' 56 8 ' 4%%' 2' ?> 25' 3@ ?3 59)' &4&, ' 7 > ' ? >@ @' 2 ; 4 5 =' 56 8 ' %4>' 215 : 59)' ' ! 3? ' C : ' NM ' > 35' 3' 4>>47)' 1 A ')' ⁄ 7' 82@ ' 3' > +4 1 3?)' &4&, ' ?> 25' 54> ' 4%' 56 8' 28 43?' 56 ' 7 2A569' 3' 56 ' 2 5)' 255 ' : ' AZ6' ' # >@

' 4%' 56 ' @ %% > 35' C ' 35 >1623? @' ; 9' 6 256 3' @4A25 >) 5 ' CC ' 0 ' 769' B>46 ; 5 @' ; 9' 56 ' * 7 6' A27)' &4&, +

' T' % A569)' 7625' 5' ?3 %)' V 16 ' ' H+

#25 ' 4%' 56 ' 15+>)' BA21 ' 4%+ @ 125 >)' 4%' B ; A 1<' ; 3)' 23@' > D 4>5' 3' 4A@' B8)' # 3 ' CC ' % .' 5 ' C : ' / L .' $ 56' : ' . ' 2 > ' ' FW' .' ' 1CC : ' 02' >4 : ' CC ')

55 3?' 3)' 23' 2 5 >3' 1 548)' # 3 ' C C '

' 769' 345 1 @' 5625' 6> 5' %% > @' 7 564 5' 56 ' ?25)' ; C ' '

' 4%' 56 ' %4 352 3)' 143+ 15 > ' 1431 >3 3?' 56 ' 5 ' 4' 12AA @)) 6 ' ' /N

' 4%' 56 ' < 3?)' %4>' 7625' B >B4 ' @)' 56 ' ' ' 7625' 8 235 ; 9' [' 55 3?' 3' 56 ' < 3?- ' ?25)-' &4&, ' AA 5>25 @)' % %@

T T ' 4%' 56 ' 16 A@> 3' 4%' 56 ' B 4BA)' CBA2 3 @)' * > ' C : ' 3 7)' 4%' 56 ' 5 8 BA)' ; 9' 7648 ' ; A5)' * > ' CC : '

T T ' 4%' & 3+28 3)' CBA2 3 @)' * > ' CCC : ' /H⁄)

' ' 8 @@A)' 4%' * > 2A 8)' 76 > ' 5 25)' * >' CCC6 K'

#25 ' 4%' 56 ' 2A52>' 69' 4' 12AA @)' U < ' : ' >⁄ '

T ' 6 ?6 >)' 4%' 56 ' 5 8 BA)' 769' 4' 12AA @)' U < ' C ' ')

' 2 5)' 4%' 56 ' 5 8 BA)' 35>2531 ' %>48 ' 1 59' 54' 143>5' 4%' 56 ' B 4 = B)' U < ' C ' / J

T ' 56 ' A47 >)' 76 > ' 5 25)' U < ' CA ' / J

' 4%' 6 ' 3 8)' B6>2 ' CBA2 3 @)' # 3 ' CC ' / W

T' 56 9' 5625' 5' 3' 56)' @A ' B > 43)' 769' 4' 12AA @) ' ; @C '

T 4%' 3 7A9' 82>> @' @ 1< @' 7 56' %A47 > ' 43?' 4%' 4A ' : ' /

T T ' [' C2A5 56' 6 ' ?25 -' CBA2 3 @)' >4 : ' C : ' / J '

T 5>2 5)' 8 52B64> 12A' ' 4%' 56 ' CB> 43)' 255 ' : ' / ' ï

#25)' [' ; 57 3' 56 ' 57 4' ?25)-' CBA2 3 @)' ' 28 ' C : ' FN ' (56 ' 6 ?6' BA21 ' 4%' 56 ' ?25)-' %4>' 7625' B >B4 ' > 15 @)' F' ! ? ' CC)' ']

' T ' 8 23 3?' 4A 83' 2 8 ; A)' ' C ' / N

T KT ' 4%' 56 ' 34 ; A ' CBA2 3 @' ' C ' ')')

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' 5 ' 5 25 43 ' * 4 6 ' C ' .' 84 ' : ' F

(D ' 5 ' 5 25 43)' F' ! 3? ' C : ' F0

#29 ' ? %5 ' 354' 8 3)' > 82>< ' 43' 56 ' > 3@ > 3?' 4%' 56 ' B6>2)' B6 : ' ' 23' 2AA 43' 54' 231 35' 1 548)' &4&, +

#2: 5=' [' 76 16' 564 ' ?2 : 5' 8)-' CBA2 3 @)' * 463' C : ' o ' 5 ' 5 25 43)' * @?' C : ' .' * > ' CA : ' 0 .' 84 ' ' ' ; 9' 7625 3 8 ' 5' 72 ' 12B5 > @)' 84 ' ' ' 5452AA9' > 3 @' ; 9' A C23@ >' *233)' V 16 ' C ' 0 ' 769' 12AA @' [' @ >5)-' 15 ' : ' 574' BA21 ' 4%' 56 ' 328)' &4&, ⁄' A

@ ' 3' & 3+28 3)' 5 ' 5 25 43)' V 16 ' C : ' /

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Mo ' 143+ 15 > ' 2 ' 54' 56 ' 12 ' 4%' 6 ' %2 A > ' 3' >2 3?' 56 ' 6 32>28 5 - ' 43)' ' ! 3? ' : ' / ' 6 ' 1>2%59' 52A ' 54' 22>223)' F' ! 3? ' , ' FF ' 6 ' %2A 644@' 54' A 62)' : > ' F0 ' 6 ' > B>44% %>48 ' A 62)' 23@' 6 ' B 3 68 35)' : >)')' FW '

6 332)' @ %% > 31 ' ; 57 3' A 5 >2A' 23@' % ? >25 : ' ' C : ' FN '

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': # 3 2A4?9' 4%' 6> 5)' 769' 5' 2556 7' ; ? 3 ' 6 ' #4 B A' 7 56' 5' 255' ' F ' 769' 56> ' < 3? ' 48 55 @' 3' 5)' : % ' ' 769' 5' 25D 56 7' 5>21 ' 5' 54' *4 B6)' : > ' ' 769' 6 ' > @ 1 ' 5' 54' 56> ' 1A2)' : > ' /W ' 56 ' @ %% > 31 ' ; 57 3' 5625)' 4%' 5' 2556 7' 2> @' 5625' 4%' 5' " < ' CBA2 3 @)' " < ' ' F ' 769' 5' " < ' d 21 ' 5' 54' @2 8)' : > ' L

' 4%' 56 ' 26)' 84@ ' 4%' 2 1 >52 3 3?' B>4 : @ @' %4>' 8 ; '

T 25' 56 ' 3@' 4%' $ 56)' 2BB 2>231 ' 4%' 48 ' 48 43' 3' 5)' $ 56' : ') ' '

3 2A4? ' 4%' 5> ; ' 23@' %2 8 A))' 647 ' B> >: @R' " : ' CC : ' / [' 3@A ' ? 3 2A4? -' CBA2 3 @)' ' 8 ' ' N '

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3 >25 43)' 56 ' 5 > 8' CBA2 3 @)' # 3 ' ' Y2' ' +' 2' ' &+' Z2' 8 ; A' 9 ' ⁄ ! ! T T ' %4 >56)' 647 ' 3@ > 544@)' # 3 ' C : ' T T ' @' %4>' 5 3' 9 2>)' &2> 16' : ' ' ; 44<' 4%' 56)' 7625' 8 235 ; 9' 56 ' 5 > 8)' 255 3 ' / % % ' 769' 4' 12AA @)' 35>4@ ' 54' # 3 ' 5 ' 21> @' 162>215 >)' &4&, ' 23@' 1435 35)' &4&, ' 56 ' 4A@ 5' ; 44<' 3' 56 ' 74>A@)' &4&, ' 56 ' %215 ' > A25 @' 3' 5' 143 % > 8 @' ; 9' 56 ' ; 44<' 3 2> 5' 54' 5' 6' 2?)' &4&, ' 2' 25 %2154>9' B>44% 4%' 5 ' 2 56 35 1 59)' # 3 ' C ' / % ' 56 ' A23@' 4%)' 76 > ' 5 25 @)' 255 ' C : ' N

T T ' A2< ' 4>' 2' 4%)' 5 ' @ %% > 35' 328 ' 8 ; ' CC : ' F .' *4 6 ' C F ' ' %> G 35' 54>8 ' B43' 5)' 255 ' : ' FN ' 12AA @' [' 2 5' 2)-' U < ' CCC C ' / / ' ' . . ' 2' 4%

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'& 8 ; >< ' B2 2? ' 3' 56 ' A@' 528 35' 3' 76 16' 56 9' 2> ' 3: 5 @' 54' ?A4> %9' #4@)' 35)' CCC ' N ' 211 43' 4%' 56 >' < 3? ' 54' 56 ' 6 >16)' ' CA: ' J ' 3 : >')544<' * 7 6' > 5 ' 354' 56 >' 74> 6 B)' U < ' C: ' N ' %>453' ?34>231 ' 345' G 2AA9' ? A59' 7 56' >2 A 5)' 4 ' C ' / ' ˜))

35 A)' ?256 > 3?' 4%' 56 8 '%4> 54A@' ; 9' *214 ;)' # 3 ' CA C '
2@4B5 43' 4%)' %4> 54A@' ; 9' 4)' 5 ' CCC ' Z' F / ' 56 >' 143: > 43' B> @ 15 @' 4>' B> % ? > @'* ' CCC: ' N Z' ⁄ CC C ' <' CA: ' / N.' U < ' C: ' >HZ V 16 ' :)' / 0 ' 3@ >' * 7 6' 82?)' 2 ' ' / / ' 56 >' 211 B5231 ' 35 8 25 @)' * > ' C ' AM ' 56 ' 12AA 3?' 4%' 56 8)' %4> 54A@' ; 9' 6> 5)' 255 ' CC ' / ' 2A 4' 56 >' > 1 B5 43' 354' '%4A@)' *463' 1 ' M'

T ' CB> @' ; 9' '56 8 ' 5625' 2> ' 7 564 5)-' 2><' : ' ' ; 9' 2 AA 5625' 2> ' 2%2>' 4%%)-' 15 ' ' \ )⁄ CB 1525 43 ' B> : 2 A 3?' 28 43?' 56 8 ' 4%' 56 ' ; >56' 4%' 23' C5>24>@ 32>9' > 43)' 255 ' ' ' 56 >' 2@8 43' 54' 56 '%2 : 4 >' 4%' #4@)' 15 ' C : ' I⁄ 7 69' > G > @' %4>' 2' 5 8 ' 54' 148 BA9' 7 56' 48 ' B2 5 1 A2> ' 4%' 5A ' 4 2 1<' A27)' : >' FJ ' 647 ' @ 5> ; 5 @' ; 9' 5' 2 A)' $48 ' ⌋ /N' ; 9' 7 625' > A ' 56 9' 7 AA' ' + @? @)' % 48 ' ' /N ' 143 @ >25 43 ' 43' 56 >' ; 3?' 2: @)' B2>52< > ' ; 9' %2 56' 4%' 56 ' 28 ' ; A @3 ' 2 ' 56 ' * 7)' $48 ' : ' ' 56 >' > 54>25 43' ; 9' 6> 5' 54' 2' 525 ' 4%' A %)' 56 ' > A5' 4%' 5' 2 A-' 2>? 8 35)' $48 ' : ' ' 2@8 43' 4%' 56 8' 354' 56 ' # 6 >16' 43' 56 >' ; A %)' : 3@ 125 @)' $48 ' C ' 345 ' ? 3 >2AA9)' 3' 7625' 56 >' %2 A5' 143 5 @)' $48 ' C ' L ' 12AA 3?' 4%)' 59A @' 56 ' 8 9 5 >9)' $48 'C , ' FO ' 456 >' C2 8 BA ' 4%' 5)' P76 3' > : 2A @)' : >' ' 2>? 8 35 ' 2?2 3 5' 56 >' 4 ; >: 3?' 56 ' * 7 6' A27 ' # 2A ' ' /0.' <' : 7625' B2>5 1 A2>' 3' 56 ' 12AA 3?' 4%' 56 8' 345' <347 3' 3' %4> 8 >' 5 8)' B6 ' ' 0 ' 4B 3 43' 4%' 56 ' * 7 ' 1431 >3 3?' 56 8)' 647)' @ 5 3? 6 @' %>123' 56 ' * 7)' 8 ' ' ' B2>' ' 345 43' 4%' 56 ' * 7 ' 3' 143 G 31)' B2>' ' %% 15' 4%' 56 ' 43' 56 ' 8 4@ ' 4%' B> 216 3?' 56 ' # 4 B A)' 56 >' 2@8 43' 354' 56 ' 6> 5 23' 6 >16' : 6 3' @ 5 >8 3 @) ⁄ 5 ' F ' > B> 3525 43' 4%' 56 >' 2@8 43' 354' 56 ' # 4 B A)' $: ' : ' J ' Q' 5 8 ' 4%' 56 ' # 35 A ' % A% AA @)-' 8 23 3?' 4%' 56 ' CD B> 43)' " < ' CC ' FN

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Ξ ' 1 59' 23@' 14 35>9' 4%' 5625' 328)' 76 > ' 5 25 @)' # 3 ' CC)' / '
% ' 5 ' B> 35' 143@ 5 43 ' 255 ' : ' FL
% % ' 14 35>9' 4%)' 769' 56 ' 28 ' 2 ' [' 4%' 56 ' # 2@2> 3)-' 255 :)' FL ' 56 ' B 4BA ' 374>569' 4%' 4 >' " 4>@- ' B> 31)' : >' N '
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% ' 8 23 3?' A23@' 4%' #4 6 3)' * @ 56' ' ' h
% 5 ' 5 ' 5 25 43)' F' 28)' C ' W-
% 5 %' 23@' o % ' 764' 56 9' 7 >)' ' 28 ' CC: ')
' % ' 8 23 3?' 4%' 56 ' 328)' 23@' 5 ' 5 25 43 ' 255)' CC9 '
D +

235)' 7625' 7 > ' 564 ' ; %4> ' 56 ' @ A ?)' # 3 ' : ' N ' G 5 3' 1431 >3 3?' 56 >' U ' 8 ; ' C '
@ ' 5 ' 5 25 43)' ⁄ 28 ' C ' ' > %A 15 43' 43' 56 > ' ; 3?' 43A9' 43 ' 823' 3' 5' 25' 6 ' 74><)' * @?' ' C C ' ' 6 ' 6 8 23 59)' #4''
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' 647' 5 25 @' 7 56' > B 15' 54' $2 8 26)' 4 ' : ' L ' 3 ' 4%' 56 8 3' 4%)' 4 ' C ' J .' J
@ ' 5 ' 5 25 43 ' *4 6 ' C ' ' 56 ' 2>5% A' 1435> : 231 ' 4%' 56 ' B 4BA ' 4%' 5)' : >' J ' @ ' >2 A 5 ' ; >4 ?65' 354' 2' 5>2 5' ; 9' 8 2<D 3?' B 21 ' 7 56' 56 8)' : >' / 0 ' 56 '%2 A5' 4%' 56 ' >2 A 5 ' 3' 4' @4 3?)' : >' / N ' B 4BA ' 4%)' 82@ ' 6 7 > ' 4%' 744@' %4>' 56 ' >: 1 ' 4%' 56 ' 52 ; >321A)' : >' ' 56 ' 325 > ' 4%' 56 ' 1 > ' 352 A @' B43' 56 8)' : >' F ' 3' 7625' 3 ' 56 ' 1 59' 82@ ' 2 ' 2' >492A' 1 59 ' *4 6)' 1 ' F)' 56 ' 52 ; >321A '< B5' 56 >' ⁄ ! 3? ' ' N ' 56 ' 8 8 3 ' 3 8 ; >' 4%' ; 2 5 ' 21> % 1 @' 56 >')'#4''
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= 8 23 3?' ; > ;)' >4 : ' C : ' FW ' [
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[' 23@' 12AA 3?' 4%' #4@' 2> ' 7 564 5' > B 35231)-' CBA2 3 @) $48 ' C ' ' > 2 43' 2 ?3 @)' #4''
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>@ 3?' B' 56 ' A4 3)' 23' 2 5 >3' 1 548 ' % ? >25 : A9' 2BBA @) / 5 ' / ' '
>@A)' B2>5' 4%' 8 A 52>9' @>)' *4 ; ' C ' F / ' 162 3' 54' 143% 3 ' 12BD 5 :)' : >' / L ' 4%)' ' 1 C ' / J ' 7625' 5' @ 345)' : ' FW. C ' 0 ' 2BBA @' 54' > : >)' CBA2 3 @' ' CC ' / ' 98 ; 4A' 4%)' C)' BA2 3 @)' * >' C ' / ' 1 > 4 A9' 7>4 ?65' 3' 56 ' 2 5)' >4 : ' 1CC FN '
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# 55 56)' 8 23 3?' 4%' 56 '5 >8)' ' : ' 5 5A
# :)' @ %4>' B >8 43)' U < ' CC ' FO ' Z' $48)' C ' L ' 769' [' 5' ' 84> ' ; A @' 54' ? : ' 5623' 54' > 1 :)-' 15 ' CC ' 0 ' 56 ' 29 3?' 4%' 6> 5' 623@ @' @473' ; 9' 5>2@ 543)' &4&, + b
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2 K ; 1 ' I J ' I - ; ' 9M2 , 29 . C ' . I I ; ME

, J I . 2 ; K ' 2 ' I - ; ' J I ; E

' 4< 3?' 56 ' 8 9?5 9' 56 ' %2 %6' 3' 2' B > ' 158 ; 31)-' CD
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4A 8 '5>)') 625' 5> ' 35 3@ @)' 5)' 4%' '9 > ' 0L
* . < % % ' 7 64' 6 ' 72)' * @ 56' ' N
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/ N.' # 2A ' : ' =
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C : ' ' K' '
T T' 647' ' 4B >25 @' 3' 56 ' 1> 25 43)' # 3)' ' F ' 7625' B2>5 1 A2>'
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B>44%' 5625' ' 3%A 31 ' 43' 8 3- ' 8 3@ ' 8 29' ; ' 7 56 544@
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5 ; A 3 ' ? A % @' ; 9' 4 > 2: 4 >)' &4&,+' ' 74><3?' 8 B >D
1 B5 ; A)' / *463' ' F ' 3%2AA ; A ' > A ' 7 6 > ; 9' 7 ' 8 29' <3473'
5)' &4&,+' ' B > 5' 4%' #4@)' &2B5 >6)' #>21)' > 3 59)' Q 1)
* . P' # 34 %)' 5 >8 ' 647' @' %4>' 56 ' =%5 ' 23@' 3%A 31 ' 4%' 56 '
) B > 5)' 15 ' C ' FN
%% 43' 4%)' % A% A 8 35' 4%' 6> 5- ' B>4 8)' 15 ' ' N) 56
' 5> < 3?' 162>215 >' 4%' 56 ' 8 >21A)' : >.' N)' ' 64' >44 8' %4>' @ A D
43' 3' 5)' : > ' W)' ' 56 ' : %35' 1 A ; >25 @' ; 9' 6' % 5 :@' 3' 56 '
6> 5 23' 6 >16)' : > ' .'
T T '?>21 ' 4%)' B>4@ 1 ' 3' ' 3 7 3 ' 4%' A %)' $4B ' : ' N
T ' 4>@ 32>9' ? %5 ' 4%)' 8 B2>5 @' 54' 6> 5 23)' 15 ' ' L ' 56
3 5 8 2 ; A ' : 2A)' &4&,+' :
4A9' ?>4 3@)' 647' 8 2@ ' 4) C4@' 3 ' ' 647' 54' ; ' 2BB>4216 @
&4&,+
T ' 3 ' 4%' # 4@)' 7 64' 35 3@ @)' 2><' %' FN
T T '43)' 7 625 ?3 % @' ; 9' 56 ' 5 >8)' 23 ' : '
T 'B 4BA)' >2 A 5 ' 4' 12AA @)' >5 4>2A' %% 15 ; %' 5 ' 35 ' C : ' F A'
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T T 'B> 5644@)' 7 69' 6> 5 23 ' 4' 12AA @)' / 5' K' 0
T T ' 1> B5 >)' 56 ' ?> 25' 6@' %4>' 7 6 @ ' 56 9' 7 > ' 7 > 55 3)' $4 8 '
$G' N ' ' 1> + > .
T '56 3?)' > : > 31 ' %4>)' B2>5 1 A2>A9' 31 A125 @' ' " : ' : ' FW
K .' ' 56 3?)' 23@' 8 4 5' 64A9)' @ 5 315 43' ; 57 3)' ' U < ' CA ' / [
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4 8 >)' @ %% > 35' 8 2 f+> ' %>4 8' 8 >)' U < ' C : '
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6> 5 23)' $4 8 ' C .' /W
T '23@' + 5 1)' 3 1 59' 4%' 56 8' 54' 2' 6> 5 23)' 6 A' : ' L]'
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B> 31 BA ' 54' ; ' 52 ; A 6 @)
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T ' 23@' @ 6434 >)' > 8 2><2 ; A ' C2 8 BA ' 3' 5' 2 A' 4%' B>4B A
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; 23@)-' # 4@' 769' 12AA @' % > 5' 6 ; 23@' 4 %' >2 A)' 4 ' '

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; 2 3 @) ' 4 3 ' ; 5 > 4 5 @ 4 ' 1 2 A A @ ' ; 9 ' 5 6 ' * 7) ' 2 5 5 ' ' / ' T T > ? 6 5 ' 4 %) ' 1 4 8 B 2 > @ ' 5 4 ' 5 6 ') @ 4 8 3 4 3 ' 4 % ' 5 6 ' 4 2 1 2 A ' A 2 7) ' $ 4 8 ' : ' / ' 7 6 9 ' 5 ' 2 A ' ' 5 6 ' 1 4 8 B 2 > 4 3) ' : > ' F [4 % ' 4 3 ' 7 % - ' C B A 2 3 @) ' / 8 ' ' F ' ; 2 3 @ 8 2 =) ' # 4 @ ' 1 4 8 B 2 > @ ' 5 4 ' 4 3) ' ' C C : ' F 2 ' ! * ' M ' / / ' ; 2 3 @ > 9) ' 2 > 5 ' 4 %) ' % 4 > 8 @ ' 1 6 % ' 4 1 1 B 2 5 4 3 ' 4 % ' 5 6 ' * 7) ' ' C A ' / Q ' ' ? > 1 A 5 > <) ' 8 2 3 3 ? ' 4 % ' 5 6 ' 7 4 > @ ' 4 ' > 3 @ > @) ' " < ' : ' = U) ' 2 6 4 > - ' % > 5 ; 4 > 3) ' ? 2 : ' 3 2 8 ' 5 4 ' * 4 ; - ' 1 4 3 5 > 9) ' # 3 ' C C F ' ' . U U 2 ;) ' 7 6 2 5 ' ? 3 % @ ' ; 9 ' 5 6 ' 7 4 @) ' 2 6 ' ' W 9 3 2) ' 3 8 5 9 ' 4 %) ' 7 5 6 ' 2 @ 4 ?) ' 1 1 A ' C ' / L * P 5 % ' 2 3 @ ' . 8 ' ; 9 ' 7 6 2 5 ' 8 2 3 ' 5 6 9 ' 8 2 @ ' 6 B D 7 > 1 < ' 4 % ' 5 6 ' % 2 5 6) ' ' 8 ' ' F ' 1 4 3 + 1 5 > ' 1 4 3 1 > 3 3 ? ' A C D 2 3 @ >) ' ! & , + 9 8 3) ' @ ' 4 3 ' > 5 > 3 ' % > 4 8 ' * 7 6 ' 1 2 B 5 : 5 9) ' * > ' C C C ' / / 2 A A 9 ' 3 ? ' ; 9 ' 5 6 ' * 7 ' 2 % 5 > ' 5 6 > ' > B 2 5 ' 2 5 5 ' C C : ' ' 9 8 3) ' 8 1 6 ' 3 ' ' 7 5 6 ' 5 6 ' 2 ? 2 3 ' B 4 5) ' C 4 @ ' C : ' F / ' B D > 4 > 5 9 ' 4 % ' 5 6 ' ; > 7) ' & 4 & , ' 5 6 > ' 2 3 5 G 5 9) ' / 2 8 ' ' / ' 5 6 ' 8 4 @ ' 4 % ' 1 6 2 3 5 3 ? ' 5 6 8 ' 2 8 4 3 ? ' 5 6 ' ; > 7) ' 6 ' C ' F N ' @ ' ; 9 ' 2 A A ' 3 2 5 4 3 ' 3 ' > A ? 4 ' 7 4 > 6 B) ' 3 5 > 4 @ ' 5 4 ') 9 B 4 1 > 9) ' 5 ' 4 @ 4 ' 3 2 5 >) ' / ! 3 ? ' C C ' / / ' 4 % ' 3 4 ' 2 : 2 A ' 3 ' 5 6 ' ? 6 5 ' 4 % ' # 4 @) ' " < ' C : ' / 0 ' 9 B 4 1 > 5) ' 7 6 9 ' 4 > ' " 4 > @ ' 4 ' 1 2 A A ' 5 6 ' 6 2 >) ' 2 5 5 ' C : ' 2 3 @ ' @ 4 ; A 3 3 @ ' B > 4 3) ' 5 6 ' 3 1 5 9 ' 4 % ' 5 6 > ' B > % 9 3 ? 5 6 > ' 6 2 > 5 ' * 2 8) ' : ' L ' 9 4 B) ' @ 1 > B 5 4 3 ' 4 % ' 5 6 ' 6 > ;) ' C 4 @ ' C ' F F ' 7 6 2 5 ' B A 2 3 5 ' 8 2 3 5) / ! 3 ? ' 5 : ' H ' = @ ; 9 ' B > 5 ' 3 ' B > 3 < A 3 ?) ' ' * ' W ' 5 6 ' 1 6 2 D > 2 1 5 > ' 4 % ' 5 6 ' B A 2 3 5) ' * 4 6 3 ' C C '

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;>'4%'56'B 4BA'@ 8 3 6 @';9'56 >'3 G 5)'F' 6>43'CC:
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%>G 35'2@843 5 43)' 6>43'CCC:'/0'5A >'1435 8B5'4%'
'8 3?>)':>']]
2'8239'2'148'54' 6> 5' 62AA';'>1:@)' 4'C:'N
769'12AA @'[A4 5' 6 B-';9' 6> 5)' 255'M+ +:A' 35> 25 @
%4 >'6 3@>@'9 2>)'56'2114 35'>1431A@'7 56'56'6 54>9'
15':.'56>'@A:>231 '2'B>4B >'C>1 '%4>'4>'@:45 43)
CC:' +7625'B>5 2A'B>:A?'56 9'62@'3'56'7 A@>''
3)' 4>'C')N' 54'7625' 35 35'56 9'2>)'C2 8 BA '54')'
:>' +56 >'4%% 31 'B2>2AA A@'7 56' 8 A2>'43 '2 8 43?'56'
4> 356 23)':>'//' 2%%4>@'2' 2 432;A'2@8 43 5 43'54' 6> D
5 23'25'2AA'5 8)'&4&,'@415>3h'54';'A 2>3@'%>48'56 >'6 D
54>9)'/ 4>',''/'%(&0)'*' 8 23-'@23? >)'&4&,'23@'#4@-'
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/% . % '16A@>3)'769'4>@ >@54';' >1 81 @'56' ?656'
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5>;'4%)'769'+4 3@';9' 4 '756'5625'4%'V ;A43)' 5
CCC '/L'23'2?>1 A5 >2A'B 4BA)'&4&,+
52A23';23@'CBA2 3@' 15'C'
/ .'B>31'4%' 9>)'>82><@'43)' U<'CC: 'F
" 6'#%)/*2'4%' 82 2)'7625'6 '<"41)2'K2"-%-('72')'9' 28'
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7 >9=' 5A743)' 4 %' 4A8 43)' 3' 7 A 25' 8 233 >' 4: @ 2 @' 7 56' ?4A@) / ! 3? ' , ' /L
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8 oo 6' > : >)' 5 ' 14 >)' # 3 ' RRR'' ' 99
M @ % (. ' 56 ' 8 2 21> ' 4 %' 56 ' B 4BA ' 4%)' 23' 215' 4 %' 1> A59' 23@' 3+ 5 1)' * @? ' CC '
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M @ ' 8 23 3?' 4 %' 6 ' 32 8)' # 3 ' CC : ' F ' 6 ' 162>215 >)' : > ' FW' 6 ' 143@ 15' 3' B >162 3?' 2 ' ; >56> ?65' 143@ 8 3 @)' : > ')' 2A 4' 6 ' 35 >1 B5 43' 4 %' 6 ' %256 >- ' ; A 3?)' &4&, ' 23@' %4>' @ 1 : 3?' 6 ' %25A >)' # 2 ' CC : @ ' (D+' @ 1 : @' 3' 6 ' 5 >3)' &4&, +' 221- ' ; A 3?' 4 %' 6 8 ' 76 3' 23@' 647 ' % A% AA @)' : > ' ' 6 ' A %) '-' 2' ! % ' 4 %' 215 43)' # 3 ' CC : ' ' 6 ' A2@@ >' 35 >B> 5 @)' : > ' /F' 7 69' 6 ' 4%% > @' "2 ; 23' : 3' 9 2> -' >: 1)' # 3 ' CC C ' / L)' 647' 8 B4 @' 43' ; 9)' "2 ; 23)' : > ' F ' 7 69' 6 ' 8 2>> @' $216 A' 23@' 126)' : > ' ' 6 ' C2 8 BA ' 34' >2A ' %4>' 6> 5 23)' &4&, ' 8 23D 3?' 4 %' 56 ' 1435>215' ; 57 3' 6 8 ' 23@' "2 ; 23)' # 3 ' CCC ' F ' > D %A 15 43 ' 43' 6 ' 143@ 15' 3' B>4B4 3?' 5)' : > ' ' 647' B>45 15 @' %>4 8 ' "2 ; 23' 23@' 2)' # 3 ' CCC)' 00 ' 7 69' 6 ' 2@@> @' 2 ' 2 ' 6 ' A4>@)' # 3 ' CCC ' N ' 6 ' 7 > 5A 3?' CBA2 3 @)' : > ' FO ' 7 69' 6 ' 56 ?6' 72 ' B 5' 4 5' 4 %' +4 35)' 4&, G 7 69' 6 ' 32 8 ' 2A5 > @' 54' >2 A)' : > ' FL ' 25' 7 625' B2>5 1 A2>' > A25 3?' 54' *4 B6' 6 ' > D +4 1 @)' # 3 ' CA : ' FL ' 7 69' 6 ' 8 ?65' % 2>' 54' ?4' @4 7 3' 354' ?9B5)' # 3 ' CA : ' ' 3' 7 625' d 3 ' 6 ' 72 ' ; >4 ?65' B' 2?2 3' 354' 23223)' : > ' N ' 8 239' @ 2 5 > ' 3' 6 ' A %)' # 3 ' CA : A ' J ' 64>53 ' 4 %' 5' 14 8 B2> @' 54' 6 ' 231 54>)' &4&, ' 7 69' 6 ' @ > @' 54' ; ' ; > @' 7 56' 6 ' %256 >)' : > ' h' 7 69' 6 ' > G > @' 23' 4256' 4 %' *4 B6)' &4&, ' 7 625' 8 235' ; 9' 6 ' ; 47 3?' 6 8 A%' B43' 56 ' ; @- ' 6 2@)' : > ' / ' 162>215 >' 4 %' 6 ' ; A 3?' 54' 6 ' 43)' # 3 ' CA C .' ' A4%5 3 ' 4 %' 5 ' 59A)' 9 > ' ' %> ' %>4 8 ' 56 ' ? A5' 4 %' D 8 43' 23@' " :)' : > ' ' > %A 15 43 ' 43' 6 ' @ 256)' # 3 ' / ' 625' 2 ' 56 ' ?> 25 5' ; A 3?' >%' 6 ' A %)' &4&, ' 6 ' B>4B6 19' 443' ; ?23' 54' ; ' % A% AA @ ' 8 ; ' ' FW ' 7 69' 12AA @' 2' 9> 23)' 5 ' CC : ' O '
T 56 ' C1 AA 319' 4%)' 56 ' A23@' 4 %' >2@)' ' CA : ' N ' # 4@' 8 D A%)' 8 4 ' : ' W '
' 8 o;1' 7 AA)-' 5 AA' 6 73)' 23@' 8 16' : 5 @' ; 9' B A?> 8)' *463 : ' ' [
TT ' ' A4 : @)' CBA2 3 @)' 2 ' '
aT ' 43 ' 4%)' 56 >' ; 4@ ' B>4 ; 2 ; A9' 12>> @' 354' 23223=' # 3 ' / H+' '
PT T ' 6 ' 43 ' 23@' ?>23@ 43)' @ %% > 31 ' 3' 56 ' 3 8 ; >' 5625' 7 35' 354' ?9B5' > 1431 A @)' # 3 ' CA : + ' FW ' 3 8 >25 @)' &4&, ++ 7 69' C215A9' > ? 5 > @)' &4&, +
: 23@' % 5 ' 56 >' 5> ??A 3?' 54? 56 >' 23' 48 3' 4 %' 56 >' % 5 > @ 2?> 8 35)' # % ' CC : ' F ' 56 >' @ %% > 35' 162>215 >)' &4&, ' 56 ' A < ' @ : > 59' @ 5 3? 6 @' 56 >' B4 5 > 59)' &4&, ' 56 ' B> @ 15 43' ' 1431 >3 3?' 56 8' : > % @' 3' 56 >' @ 1 3@235)' &4&, ' > 8 2><' 43' 56 >' ; 9 3?' 221)' # 3 ' CCC : ' FJ ' 56 >' B4 5 > 59' B4< 3' 4 %' ; 9' 5' 2 A)' $4 8 ' C ' W ' / ' 3' 7 625' 3 ' 56 ' 43 ' 72 ' A4 : @' 23@' 56 ' 456 >' 625 @)' &4&, +
M 5 ' 6 ?6' B> 5)' 7 6 56 >' 56 ' 2 8 ' 2 ' *2@@ ' 3' A C23@ >-' 5 8)' 6 ' C ' '
M . ' 6 >' 64 B 52 ; A ' > 1 B5 43' 4 %' >2)' * @?' : ' ' B>4 ; 2 ; A9' 215 @' 3@ >' 2' : 3 ' 8 B A ' 3' < AA 3?' 6 8)' : > ' ' 43' 56 ' ?>4 3@' 2A43 ' 6 >' 215 43' + 5 % 2 ; A)' &4&, ' 6 >' 215 43' %4>' 7 625' B >B4 ' > 14>@ @)' * @?' : ' FN
M ' %4>' * 64 : 26)' ' C : ' N
M o ' 7 69' B 1 2AA9' 3 B > @' ; 9' # 4@)' F' 6>43 ' CC ' / N)
*2 A4>' 25' 6 A BB)' 56 ' 3% 3 5 ' 8 B4>5231 ' 4 %' 6 ' G 5 43 ' 15 ' C : ' ' 56 ' ; A %' 76 16' ' 8 2@ ' 56 ' 143@ 5 43' 4 %' 6 ' 2A : 25 43)' : > ' / ' ?>4 3@ @' 43' 56 ' 74>@' 4 %' # 4@)' : > ' F
M ' 43 ' 4%)' 1 >1 8 5231 ' 1431 >3 3?' 56 8' 7 69' 8 35 43 @)' * @? ' C ' N
M @ ' 2' 5> ; ' 4 %' >2 ;)' / 21 ' C ' M '
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T ='56 ' ")' 6 ' B2> 352?)' 35>4@ ' 54' *28 ' @ ?> ' 4 %' 6 ' > A25 43' ' 54' 6> 5)' &4&, ' 2 564>' 4 %' 56 ' B 5A ' 7 6 16' ; 2> ' 6 ' 328)' &4&, ' ; 64B' 4 %' * > 2A 8)' &4&, ' 1 >1 8 5231 ' 4 %' 6 ' A % ' 23@' @ 256)' &3&, ' 7 69' 12AA @' 56 ' ")' 255 ' C ' ' A ' 4B 3 43' @ 1 @ ' 56 ' 1435>4 : > 9' 2 ; 4 5' 1 >1 81 43 ' 15 ' C : ' / J ' 56 ' > 2 43 ' 4 %' % ' 4B 3 43)' : > '
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M % ' 7 6 16' 4 %' 56 ' 5 7 4' 8 35 43 @ [2 ' 62 : 3?' 3' 6> 5' 2 %5 >' ' > >> 15 43)' / 4>' 13' '
T ' 5)' B 5A ' 4%)' ; 9' 7 6 16' *28 ' 7 > 55 3)' 35>4@ ' @25 ' 4 %' 5)' &4&, ' 8 8 @ 25 ' @ ?3' 4 %' 5)' &4&, ' 5 ' 1435 35)' &4&, ' 23@' 1A52 ' >215 >)' &4&, +
M %' 23@' M % % ' 7 6 31 ' 56 ' 328 ' 2> ' 52< 3)' F' 8 ' ' L ' 764 ' 328 ' 56 9' 2>)' &4&, ' 7 69' 56 ' 6 > 5 12A' 5 216 > ' 3' 56 ' ' 6 >16' 14 8 B2> @' 54' 56 8)' %> @ ' P
M D ' 8 23 3?' 4 %' 6 ' 328)' # 3 ' C ' FW ' 2AA @ @' 54' 3' 426 ' B>4B6 19)' &4&, ' 7 6 16' 2 ' % A% AA @' 3' 56 ' 3A2>? 8 35' 4 %' 6 ' 5 >> 54>9' 23@' 16 A@> 3)' &4&, ' 647 ' 2 @' 54' @ 7 AA' 3' @ ' 5 35 ' 4 %' 6 8)' &4&, ' > 72>@ @' %4>' 6 ' B 59)' &3&, +' 764' BB4 @' ; 9' 56 ' #> < ' 54' ;)' # 3 ' C ' F
8 6' 7 625' <') ' 4' <%((*6 ' *4 6 ' C C ' CE ' 5 ' & " 6 * & ' 1 % & * ! ' &4&, +
8 o6' . ' 10 !' 764' & *%1)' - ! ' 4 ' 5 ' A?
8 1 o 6') / *' - " " . ' " #! ' K2 " - %- (*' *RK(%1%)' " 1' " #) / *') *2 & ! ' 3 " 6 ' ' R A?
M % @ ' 6 ' A %5 3?' B' 6 ' B 2>' 2?2 3 5' 56> ' 6 3@> @)' CD BA2 3 @)' ' 6>43 ' C '
*2 B >)' @4 ; 5 ' > B 15 3?' 56 ' B> 1 4 ' 543 ' 8 235 ' $: ' : ' &
8 o 6' #> 1 ' 769' 4' 12AA @)' D* . ' CC : ' A?' B>4 ; 2 ; A9' B2>5' 4 %' >2 ; 2)' : > ' / J
M o ' A23@' 4%)' 7 6 > ' 5 25 @)' 8 ;)' CCC ' /)' ' C : ' L ' 7 BD 3?' 4 %' *2U >)' CBA2 3 @)' : > ' J '
* 2A4 ' # 4@)' B6>2 ' CBA2 3 @)' C4@ ' CC ' O
* 2A4 9)' 8 23 3?' 4 %' # 4@- ' B>4 : 4< 3?' 56 ' >2 A 5 ' 54' + 2A4 9)' 5 ' CCC ' F / ' 647 ' % A% AA @)' UQ*
' && ' 56 ' % >9' 4 %' 5' @ 1> ; @)' >4 : ' : ' N
TT ' 8 2? ' 4%)' 4B 3 43 ' B43' 5)' U < ' : ' H+
L &' 725 >' 4%)' 56 ' B>4 ; 2+ A ' CBA2325 43' 4 %' 5+' 8 ; ' : ' F / ' ' 647' @ 5 3? 6 @' %>48 ' 56 ' 4>@ 2A ' 3' 56 ' @2>< 2?)' : > ' ' 2' B>44 %' 4 %' 56 ' : >5 ' 23@' 7 @4 8 ' 4 %' 4)' : > ' L /
M @ 5 % % ' 647' A43?' 56 9' B4 @' ' * > 2A 8)' *4 6 ' C : ' M ' 56 >' 14>3 % A' 23 7 >' 54' 2 : @)' F' 28 ' : ' M)' 7 69' 56 9' 7 >' 625 @' ; 9' 2 : @)' : > ' L ' 345' 2AA' CB AA @' %>48 ' * > 2A 8' 8' 2 : @- ' 5 8)' F' 28 ' CC , ' ' '
M % ' 7 69' ; 456' * 64 2< 8' 23@' * 64 216 3' 4' 12AA @' 255 ' ' ' ' '
M 5 5 ' 328 ' 4 %' 56 ' 16 %' 8 1 23)' ' CCC C ' 5 5A
8 Y6' / " B' -2 " 40 /)') "' K2% ') "' #4@)' F' M ' 10+' R ' ' ' C7 [5/ ' #4@' / *%2 . *1*6') "' / ' &! &4&, +' 0
M @ ' B2 2? ' > B 15 3?' 6 ' 2? ' 7 6 3' 6 ' ; ?23' 54' > ?3)' 647 ' > 1431 A @)' F ' ! 3? ' CC : ' L ' 647 ' 5> 25 @' ; 9' : A 8 =4@21A) F' ! 3? ' CC : ' FW
M ' 6 ' 1435> : 231 ' %4>' ? 55 3?' 2' 5>43?' %4>1 ' 354' 56 ' 5 8 D BA)' 54' B>41A2 8 ' *42 6' < 3?)' F' ! 3? ' C ' 0 ' 12 ' 56 ' B 4BA ' 54' > 3 7' 56 >' 3?2? 8 35' 4 %' 4 ; >: 3?' 56 %' > A ? 43' 23@' A27)' : > ' ' > %A 15 43' 43' 6 ' B> >: 3?' *42 6' 3' > ?65 4 ' 14 > ' 2 ' A43?' 2 ' 6 ' A : @)' F ' ! 3? ' C ' F ' 56 ' 6434 > ' B2 @' 54' 6 ' 8 D 8 4>9' 2' B>44 %' 4 %' ?44@' @ B4 5 43' 3' 56 ' B 4BA)' F' 6>43 ' CC : ' / ' T T ' 56 ' B> 5)' 7 64' 6 ' 72)' * > ' CC C ' FM
M I ' B>4B6 19' 2 1> ; @' 54' 6 ' > ?3)' * > ' C ' 35>4@ ' 2' B>4B6 19' % A% AA @' 3' 6 8)' * > ' CC ' / J '
M @ ' 43' 4%' $ 162 ;)' 6 ' B 59' 23@' B> @ 31)' F' ! 3? ' M+' >' 56 ' > B 15' 7 56' 7 6 16' 6 ' ' 5> 25 @' ; 9' * 6)' &4&, ' @ 2>21 ' 5 >' 4 %' 6 ' 3 5 5 5 43)' * > ' CCC : ' F ' 7625' ; 128 ' 4 %' 6 ' %2 8 A9)' : > '
M ' 56 ' 28 ' 328 ' 7 56' *4C2 8)' 574' < 3? ' 4 %' 56 ' 328) ' F' 6>43 ' CC ' 0
' 43' 4%' 62 ;)' 7 69' 6 ' B 5' @4 7 3' 56 B ; A 1<' 74> 6 B' 4 % &22A)' F' ! 3? ' ' F ' 2@ : 2352? ' 54' 6 8 ' %>48 ' 6 ' 8 >9)' : > ' / ' 8 23 3?' 4 %' 6 ' > G 5' 54' A 62)' : > ' / ' 7 69' 2A2>8 @' 25' ; 3?' 2 < @' 54' 1 > ' 228 23' 4 %' 6 ' A B>4 9)' F' ! 3? ' : ' W ' 12 ' 4 %' 6 ' % >9' 2?2 3 5' A 62)' F' ! 3? ' \ : ' / ' 6 ' @ B2 >' 23@' @ D 5> 5' 4 %' # 4@)' : > ' ')' 56 ' 3 >' 4 %' 43 ' 4 %' 6 ' 4%% 1 > ' 25' # 4@- ' B47 >)' 23@' 6 ' B 3 68 35' %4>' 5)' F' ! 3? ' : ' F ' 7 69' BD ; >2 @ @' ; 9' * 6 ' %4>' 6 ' 8 456 - ' 3)' F' ! 3? ' C ' FF ' > %A 4 ' 5 43 ' 43' 6 ' ; 3?' 12 5' 3' 56 ' % A@' 4 %' 2 ; 456)' : > ' FO
' 43' 4 %' * 64 62B625)' 56 ' @ %% 1 A5 ' > B 15 3?' 56 ' 5 8 ' 4 % ; ' ; ? 33 3?' 54' > ?3)' CBA2 3 @)' F' ! 3? ' : ' '.' F' 6>43 CC ' ' 143 5>2 3 ' 6 ' ; + 15 ' 54' %4A4=7' 6 ' @4A25>9)' : > ' / / ' 12A2 8 5 ' 35' B43' 6 8' ; 9' 56 ' B 1 2A' @ > 15 43' 4 %' # 4@)

2 K ; 1 ' I J ' I - ; ' 9M2 , 29 . C ' . I I ; ME

' 6>4%& ' ' 4B E 43 ' 43 ' 56 ' @ 2 ' 6 ' @ @ ' 4%) ' : > ' ' 5 A2 8 >5% @ ' % 9 ' 6 ' B 4BA)' : > ' ' ± ' a % 2 & 5)' 6 ' %% 3 59 : 356 ' 62 ;) ' / ! 3? ' CC ' F ' 6 ' 12> ' 54 ' 6 2 352 >' > A ? 43)' F ' 6>43 ' C : ' W ' > 1 : @ ' : 4A 352>9 ' 5> ; 5 ' %>4 8 ' 56 ' 6 A 5 3 ' 23@ ' >2 ; 23)' : > ' / / ' ?> 25 ' B>4 B > 59 ' 4%' 56 ' < 3?@4 8 ' 3@ >' 6 ' > A ? 4 ' 2@8 3 5>25 43)' : > ' /N ' : 5 ' B > 432AA9' 6 ' < ; ?@4 8 ' %4>' 56 ' B >B4 ' 4%' %% 15 3?' > %4> 8 2D 5 43 .' F ' 6>4> ' [C C ' N ' 2BB4 35 ' 4%% 1 > ' 54 ' 5>9 ' 12 ' 4%' 2AA' 4>5)' : > ' ' 3+4 3 ' 56 8 ' 54 ' 2@8 43 6 ' 5> B2 >)' 2 ' 7 AA ' 2 ' 54 ' B>434 31 ' + @?8 35)' : > ' ' 23@ ' 54 ' 2@8 3 5 >' + 5 1 ' 8 B2>5 2AA9' ' B>41A2 8 ' 2' %2 5 ' 56>4 ?6 ' 56 ' < 3?@4 8 ' 7 6 3 ' 25521< @ ' ; 9 ' 6 ') 3 8)' ' 6>43 ' CC ' ' 4 ; >:25 43 ' ' 43 '\ ' B>29 >' 4 A ' 56 ' 4112 43= ' , >' D# 6 ' B %2A 1<' ?>25 5 @ ' 54 ' # 4@ ' 2%5 >' 4 ; 52 3 3?' 56 ' : 154>9)' : >)' W0 = ' : 2AA 9 ' 4%)' CBA2 3 @ ' * 4 A ' *< , + 3 23 3?' 4%' 56 ' 328) C4@ ' ' / N .' ' C ' .' *43 ' .' 647 ' % 3@ % = ' 3 ' ' 4 >' 5>23 A25 43)' C 4 ' ' / 0 ' %4>' 7625 ' \B %B4 % ' # 4@ %> G A5A9' ; > 3? ' 3 ' 56 ' 328 ' 3 ' 1> B5 >) ' w4@ ' : ' ' 3 ' 7625 ' =3 ' # 4@ ' 72?' 345 ' <3473 ' 54 ' 56 ' 25> ' .' >@ ' % +>' ' 328N

T T 328 ' 4%)' 8 23 3?' @%' 56 ' B6>2)' V 16 ' C : ' J ' A 4 , 2K +8 <)' > 2 43 ' %' @ ' 328)Zg 3 ' CC ' / N / Z4 ' < >5=% 4% >2 A)' 5 , %29 6 72 ' 234 35 @ ' ; 9 ' 4>@ >' 4 %' A 62)' W ' ! 3? ' C ' .' 215 @ ' 3@ >' 23 ' CB> ' : 3 ' 148 8 43)' &4&, + 56 ' G 5 43 =4% 6 K4%% 1 > > B 15 3?' 56 ' 8 2? ' 35 ' %>4 8 ' ' A 62 ' 143 @ > @)' : > ' AA ' 647 ' B>41A2 8 @ ' < 3?)' : > ' / ' 6 ' -' 7 4>@ 54 ' & @<2>' 6 ' ; 2B52 3 > B 15 3?' 56 ' ; >@% 3 ' A2 @ ' B43 ' ' 62 ; ' CBA2 3 @)' : > .F0 > 2 43 ' 4%' 6 ' A 55 >' 54 ' 56 ' > A > ' 4%' * U> A ' 25 ' 282> 2)' ' ! ? :C .' / ' 56 >' 143 35 ' 54 ' 6 ' 2BBA 12 ' [5 43 ' 23@ ' @ >5 43 ' 4%' 62 ; - ' %2 8 A9)' 143 @ > @)' : >.' 0 ' 7625 ' 6 ' @ ?3 ' 72 ' 3 ' 7 > 5 3 ? : > ' K 769 ' 6 ' 4>@ > @ ' 56 ' 6 2@ ' 4%' ' 62 ; - ' 43 ' 54 ' ; ' B ; A 1<A9' CB4 @)' : > ' ' @ 1A2 8 ' B> : 25 ' > : 3? ' 4>' 2 8 ; 5 43 ' 3 ' B 55 3? 56 8 ' 54 ' @ 256)' : > ' ' 6 ' A2 ?65 >' 4%' [' 56 ' ; > 56> 3-' 4%' 32U 26 ' 143 @ > @)' : > ' /N ' 6 ' ; 5 A59' 3 ' @ 5>49 3?' 56 ' 74> 6 BB > ' 4%' &22A' 143@ 8 3 @)' : > ' 6 ' U 2A' 8 29' ; ' 148 8 3@ @)' 345 ' 6 ' %>2 @)' &4&, ' 6 ' 84 ' 5 : ' 3 ' 435 3 3?' 5 A ' 16 8 ' 7 6 16 ' * >4 ; 42 8 ' ; 2@' ; ? 3)' : > ' #4@- ' ; 4 359 ' 54 ' 6 8 ' 3 ' ; 547 3?' 5 8 B4>2A' ; A 3? ' %4>' 6 ' i-B2>5 2A' 4 ; @ 31)' : > ' 56 ' B>48 ' 4%' # 4@ ' 54 ' 6 8 ' %2 56% AA9' < B5)' ' ! 3? ' C : ' A ' .' 4 ' ' N T 43 [2323 ' 56 ' >4B6 5)=' 7 69 ' 2@ ' 54 ' C 1 5 ' #4@- ' ' + @?8 35 ' 2?2 3 5 ' &22 62)' ' ! 3? ' C : ' W ' B1 ")' 43 ' 4%' 6 A 8 26)' 7 648 ' 6 ' 11 @ @)' * > ' CCC : ' ' A 5 +)' 6 ' 3@ 3?' 54 ' 56 ' 8 843 5 ' ; %4> ' 6 ' %4 ?65 ' 2' 8 2><' 4%' 5> ' : 2A4 >)' * 3@?' C .' / F 6 <' 2>? 8 35 ' %4 3@ @' 43 ' 56 ' B> 31 BA ' 4%' 6 ' 2@: > 2>)' AC FN ' 148 8 5 ' 6 ' 12 ' 54 '] # 4@. : > ' - 3@47 @' ; 9 ' # 4@ 7 56 ' C5>24>@ 32>9 ' 14 >2?) ' 2> @ 456 >' G 2A 5 .' : > ' ' 6 ' : 47 ' 35 3@ @' 54 ' 3 > ' 56 ' - : 3 ' % : 4 >)' Q ' %7T\UT6 ' 6 2>5 ' 1A 2 : @' 54 ' # 4@)' &4&, ' 56 ' \. 3 ' 3 ' 76 16 ' 6 ' ' AO ' 54 ; ' 3@ > 544@)' : > ' / ' 23 ' C ' [2 8 BA ' 54 ' ' 4%' B 59)' 23@ 5> 15 ' 3 ' 4%' 6434 >)' : > ' M ' 2 ' 728 ' a<' 3?' 2?2 3 5 ' 8 2< 3?' %4 6 ' , 47 i ' &4&, + ' + 6 6 - ' @2 ?65 >+' 6<K' @ 5 % A3 ' 3 ' 3?' %4>' 56 ' B >%4> 8 ' K '=31 ' 4%' 6 >' %256 > ' : 4 ,)' * @?' C ' M ' 143 @ >25 43 ' > B 15D 3?' 56 8 233 >' 3 ' 76 < 6 56 ' , 47 ' 72 ' B >%4> 8 @)' &4&, +' : > N ' ' + $ A O)[%' 56 ' 21 >@452A- >21)\ 2 >4B6 5 ' : >9' 94 3?)' B>4B6 ' [' ; [@ @ > 3?' %4>5955 -9>2> .' 12>> @' 354' ?9B5)' 543 @' 54' @ 256' ' 25' 26B236)' AA 5> 4 ' 1A 2>215 >' 4%' 6 ' B>4B6 1)' 6 ' 59A)' ' 3@ > 7648 ' 6 ' B>4B6 @.' 35>4@ ' 54 ' * 3 ' 6 ' A2 8 3525 43 ' %4>' * 4 = +' - 347 ' A4 5)' 6>43)' CCC : ' F0 .' 35>4@ 1 ' 2 26 - ' : [>4+%4 19 2?2 3 5 ' 42 ; ' 354 ' 6 <' 473 ' ' C , ' 35>4@ ' .' * > ' CA : ' / ' 769 ' B> 8 @' 54 ' ; ' 2' %2A ' B>4B6 5)' * > ' C : ' / L ' B>4B6 ' _ %- @' 3 3 5 3 ' 9 2> ' 3@ > *4 26)' * > ' CC :)' ' 6< 435 8 B4 ' ' >)' : > ' : 2@@ 5 43 ' 54 ' 6 <' \B>4B6 19+' * > ' 35>4@ ' =G 452 ' ' 5 43 ' %>4 8 ' V 162> 26 ' 255> ; 5 @.)' 54 ' 6 8 -' 2 ' B>4 ; 2 ; A ' 29 ' 4%' 21 ' ' 14 35 3?' %4>' 5 ' 255)' CC : ' J ' > 8 2><' 43 ' 56 ' 5>23 A25 43 ' 4%' 2 ' B2 2? 3 ' ; ' : J ' ' ' ' ' .2' /AO ' M ' 769 ' 2AA @' 56 ' 1 59 ' 4%' B2A 8 ' 5> .' 35 ' C 5= %=. ' * @?' ' 5M ' 5 @75231 ' %>4 8 # A?2A)' \ * 4 6 : ' F ' 69 ' 56 ' >2 A 5 ' ' 7 > ' 345 14 &3223@ @' 54' ; ? ' 5 -%4> 8 2AA9. ' * 4 6 ' : ' [56 ' ' 8233 >' >% ' 5 ' 7 2A<' %2AA 3? @4 7 3) , > ' =56 5 25 > 23@' %% 15' ' 4% 5 ' %5> >2 =)' : <% L .' B ! B6 Z? 5 B 15 3?' 55 0 ; 55 A@ 3?' 4 %' 5' > 8 2><2 ; A9' % A% AA @' ' 9 2> ' 2%5 >72>@ .' : > 5=% 6 ? C : <' N ' 1 > ' 43 ' 56 ' > ; A@ >' 4%' 5)' 345 ' 43 ' 564 ' 764 ' 8 ?65 ' 362 ; 5' 5 ' * 4 6 ' : ' FM ' 2' BA21 ' %284 ' 3 ' 2%5 > 5 8)' &4&, ' 5 ' @ 5231 ' %>4 8 ')' * 4 6 ' : ' F ' 2' 143 @ >2 ; A ' BA21 ' 3 ' 6> 5- ' 5 8)' " < ' C ' ' 56 ' >42@' %>4 8 ' 5' 54' * > 2A 8 ' 3% 5 @' 7 56 ' >4 ; ; >)' &4&, + M ' BA2 3 ' 4%' 7 6 > ' 5 25)' * > ' CCC C)' 0 ' 6 +) ' %% 15' 4%' 6 <' > 1 : 3?' 2' B ; A 1<' 2BB4 35 8 35' %>4 8 ' 4D A4 8 43)' / ! 3? ' C ' FL ' 647 ' 4A4 8 43 ' <3 7 ' 7625' 62@' B2 @' ; 57 3 ' 6 8 ' 23@' ; +26)' : > ' N ' 769 ' 6 ' 3A2>? @' 23@' ; 2 5 D % @' 6 16 8 ' 23@' 3 A)' / ' ! 3? ' C ' F0) ' 7 ' 574 ' 56 3? ' 6 ' 72 ' 3%2 8 4 ' %4>)' : > ' 6 ' 7 1< @' B4A 19' 54' B> : 35' 56 ' > 3 43 ' 4%' 56 ' 5 3' 5> ;)' : > - FM T FL ' +6 ' 574 ' 12A : ' B>4 ; 2 ; A9' 3' 8 525 43 ' 4%' ?9B5 23 ' @4A25>9)' : >5' FL ' 6 ' 7 A%5 A' ; > 216' 4%' # 4@- ' 148 823@ ' 3' 55 3?' 56 8 ' B)' &4&, 8 56 ' 1623? ' 82@ ' ; 9 ' 6 8 ' 3' 56 ' 325 432A' 74> 6 B' B> 1> ; @' ; 9 ' 56 ' 4 2 1<' A27)' &4&, ' 6<' %2A ' B4A 19' B>4 : @' 6 ' > 3)' &4&, + 6<' 143@ 15' 3' 55 3?' B' 56 ' 12A : ' 345' A44< @' B43 ' 2 ' 23=2 ; ' 4A 5 ' 6 256 3' @4A25>9)' &4&, ' 6 ' 8 ' 54' 62 : ' 35 3@ @' 5 A ' 12A : ' 2 ' 98 ; 4A ' 4%' 56 ' : 3 ' B> 31)' &4&, ' 6<' 143@ 15' 8 D BA @' 34' @ A ; >25 ' > + 15 43 ' 4%' 56 ' 4 2 1< A27)' &4&, ' 6 ' 82<D 3?' B> 5 ' %>4 8 ' 56 ' A47 5' 4%' 56 ' B 4BA ' CBA2 3 @)' : > ' / ' 6 ' 8 B 3 5 31)' &4&, ' 2' >4B6 5' 35 ' 54=728 ' 6 8)' 23 ' 3 5231 ' 4%' # 4@- ' 8 >19)' / ' ! 3? ' C ' / ' 6 ' B> 8B5 4 ' 2 8B5 43 ' 4%' 56 ' 8 3 5 > 2A' 4%% 1)' &4&, ' 6 ' 8 B 59' 3' 255 8 B5 3?' : 4A 31 ' 2?2 3 5' 56 ' >4B6 5' 4%' # 4@)' : > ' N ' 148 B AA @' ; 9 56 ' 7 56 >D 3?' 4%' 6 ' 623@' 54' 473 ' 56 ' B47 >' 4%' # 4@)' : > ' M .' 6 2' B 5 5 43 ' 54 ' 56 ' >4B6 5)' 23@' 56 ' >4B6 5 ' > 2@9' 35 >1 43 ' %4> ` ; 8)' &4&, ' 6 ' 8 3@' > 823 ' 62>@' 23@' 8B 3 5 35' 5472>@ ' #4@)' : > ' ' 4 ; >:25 43 ' 43 ' 6 ' 8 B 3 5 31 ' 23@' 1435 3 231 ' 3' 3)' : > ' H ' 6 ' 3%25 25 43 ' 3' 3@ 3?' 6 ' 7 % ' 3' @ ?3< ' 54 ' 56 ' >4B6 5' 6 +26)' / ! 3? ' C : ' F ' 6 ' B>4 ; 2 ; A ' > 2 43 ' %4>' 82<D 3?' 6 >' ?4' 3' @ ?)' &4&, ' 6 ' 12>5=' 6 2>5' 23@' 564 ?65A D 3 ' 4%' # 4@)' : > ' # 4@- ' + 5' + @?8 35 ' 43 ' 6 8 ' %4>' 6 ' @4AD 25>4 ' 74> 6 B' 23@' 456 >' 3)' / ! 3? ' C : ' FJ ' 647 ' 6 7 1< @' 1623? ' 3' > A ? 4 ' 8255 > ' % >3 6 @' 5> 3?56 ' 54 ' $ 64 ; 428) F' 6>43 ' C ' / ' 6 ' % 2>' 4%' 56 ' %% 15' 7A 1A ' ; +26 - ' 2@@> ' 8 ?65 ' B>4@ 1 ' 43 ' 56 ' B 4BA)' F' 6>43 ' C ' / ' 6<' B%49' 5> 1<' 7 56' 2' B23 1<' ; 9 ' # 4@)' : > ' /0 ') ' * M 5@@ % ' 769 ' 23456 >' 328 ' %4>' # @ 43)' ' 28 ' C ' # M 5% . ' 5 ' : >2A' 328 ' * 4 6)C ' / ' ?3 % 125 43 4%' 56 ' 74% @' * > 2A 8)' &4&, + ' ') 769 ' 411 B @' ; 9 ' 56 ' 4A@' 362 ; 5235 ' 3' 56 ' 5 8 ' 4%' 56 + @?)' * @?' C C ' / F ' 647 ' 5 ' 56> ' 72AA ' 7 > ' @ B4 @)' ' / ! 3? ' C ' / 0 ' 1 35> ' 4%' 3 43 ' 54 ' 2AA' 56 ' 5> ;)' Q ' CC ' ' 5 ' ; 2 59 .' 43?' 4%' 4A ' : ' N ' 769 ' B > 43 ' % ' 2 @' 54 ' ?4 ' @4 7 3 ' %>4 8 ' 5)' 23@' B' 54 ' 6)' F ' 6>43 ' CC ' .' 4 ' " ' / / ' 647 ' %2>' @ D 5235 ' %>4 8 ' B6>25)' * > ' C " ' N ' 5 ' @ 5> 15 43)' 56> 25 3 @) * > : ' L)' 5 ' 3?>25 5 @ ' ?> 25 >' 5623 ' 5625 ' 1%' 282> 2 .' U < ' C : ' 0 / ' 769 ' 12AA @' 56 ' ; A44@9' 1 59)' U < ' CC : ' M ' 5 ' @ 5> 15 43 ' %4> 54A@)' * 4 A ' " ') / ' T T ' ? ' 4%)' ; 9' 56 ' &2 ; 9A43 23)' 1 >1 8 5231 ' 3' 5' B> @ 15 @ ' " : ' CC : ' 56 ' 12B ' 4%' 56 ' B 4BA ' i ' ; 9' 56 ' 729 ' 4%' 56 ' ?25 ' ; 57 3' 57 4 ' 72AA -' CBA2 3 @)' F' ! 3? ' CC : ' N ' 3*6 ' A43?' 5' A2 5D @)' U < ' : ' 0 ' > %A 15 43 ' 43 ' 5 ' @473 %2A' ; 9' 56 ' &2 ; 9A43 23) ' F' ! 3? ' CC : ' HU ' 28 ' ' F / ' 148 BA2 35 ' 54 ' 6 8 26 ' 4%' 5 ' > 34 ' 525)' 6 ' ' 56 ' > 2 43 ' 4%' 8 35 43 3?' 3' @ 52 A' 564 ' 7 A 4 ' 2 5 @' 3' ; A@ 3?' 56 ' 72AA)' 6 ' ' / ' 7625 ' 56 ' 64>53 ' 4%' 56 ' 5 8 ' 3' 7 6 =' 56 ' 72AA' 72 ' %3 6 @' 6 7)' 6 ' : ' /0 ' 2%5 >' 56 ' ; A@ 3?' 4%' 56 ' 72AA)' 56 3A9' 362 ; 5 @)' 6 ' C ' / ' CB @ 35 %4>' B 4BA 3?' 5)' 23@' 3 8 >25 43 ' 4%' 564 ' 764 ' @ 7 A5' 56 >)' : ' /)' ' 2 ; 4 5' : 3' 8 A ' 3' 1 >1 5)' U <) CA : .' /0 ' 12AA @' 56 ' 64A9' 1 59 ' 255 ' : ' 0 ' ? ' 4%)' ; 9' 56 ' $ 48 23)' %4> 54A@' ; 9' 4)' 5 ' CC : ' 0 ' 64>>4 > ' 4%' 5' @ 1> ; @)' &4&, ' @> 2@% A' 411 >> 31 ' 3)' > A25 @)' ' : > ' 0M ' 6> 5- ' B>4B6 19' 4%' 5 ' @ 5> 15 43)' 43 ' 4%' 56 ' 1A 2> 5' P 23@' 84 5' 8 B4>5235 3' 56 ' 1> B5 >)' 255 ' CC &' 35>4@' C215' 2114 8 BA 68 >>% 4% 56 ' ' : 8 2A' B2>5 ' 4%' 56 ' B>4B6 19.' : > ' F ' 56 ' 64>> ; A ' 12A28 5 ' %% > @' 25' 5 ' @ 5> 15 43)' : > ' F / .' 5 ' +CC : A. ' / 0L)MF ' B>4 : @ 35 2A' 64>5 3 3?' 4%' [564 ' @29)-' 255 CC : ' ' 5 @ 5> 15 43 ' 23' 2>3 5' 4%' 56 ' % 5 > ' B 3 68 35' 4%' P+' 5 ' 521< @)' : 2 ' .' = >11 @ @' ; 9' % 2>% A' ?3)' " < ' CC ' ' 56 5 <5> >2 ' : > 59 ' 4%' 56 ' * @?8 35)' 15 ' ' F ' 5 ' : >2A' @ 5> 15 43 ' 56 ' : > 5' 4%' # 4@- ' + @?8 35)' U < ' : ' ']]]] ' 76 16' 2 ; 49 .' 7625' 5' 8 23)' 23@' 769 ' # 2A ' : ' FM

M 2%' 56 >' 6 ?6' B> : A ? ' = -43?A9' 5' %4>56' ; 9' 6> 5)' 2>< : ' FW' 56 >' + 2A4 9' 4%' 56 >' A ; >5)' *463' : ' .' B> D >: @' 2BB 2>231 ' 4%' %> @48)' 76 3' 3' 215 2A' ;43@2?)' &4&,-# 56 ' B47 >' %' A % ' 23@' @ 256' 76 3' 52< 3' %>48' 55 8)' *463 C: ' /' 56 >' %4>8 >' ?A4> 4 ' B> : A ? ' 769' 3 8 >25 @' ; 9' 5' 2 A)' $48' C'0' 56 >' @ 1 35' %>48' ;>2628' 32:2 A 3?' 7 564 5' 4; @ 31 ' 255' ' J' 56 >' 62BB 3)' 62@' 56 9' ; D A : @' 3' 6> 5)' " < ' C C ' NF

T 56 ' 26' % > 5' 35' 54' 56 8)' 23@' 56 >' 3374>56 3 ' 4% B >3)' 15 ' ' FM' 56 >' B> % > 31 ' 4%' 56 ' B>2 ' 4%' 8 3' 54' 56 ' B>2 ' 4%' #4@)' *463' : ' NN' 56 >' B> 5 31 ' %4>' 345' ; A : 3?' 3' 6> 5))' : >' NM' 56 >' B>G @ 1 ' 4; 5> 15 @' 56 >' ; A %' 3' 6> 5)' " < ' : ' F)FN' 56 >' %2A ' 211 25 43 4%' 6> 5' 14: > @' ; 9' B 14 ' B> 5 31)' " < ' CC ' F' 56 >' BA23 ' > B 15 3?' 56 ' 2BB> 6 3 43' 4%' *)' 255' CC: ' 0' 56 >' > + 15 43' 4%' 56 ' #4 B A)' 255' CC ' M' 769' 56 9)' 143@ 83 @' 8 '%4>' ; 2 ' B6 89)' *463' C C ' W' 647' 56 9' 3@ > 544@' 56 ' 5 5A ' 4%' Q 43' 4%' #4@)-' &4&, ' 54' 7625' A27' 56 9' 2AA @ @' 76 3' 56 9' 2 @' 6> 5' 4 ?65' 54' @)' &4&, ' 769' 12AA @' ; 9' 6> 5' [' 4%' 56 >' %256 >' 56 ' @ : A)-' *463' : NN ' 7625' 8 235' ; 9' 56 >' @4 3?' 56 ' A 5' 4%' 56 >' %256 >)' &4&, ' 56 >' B >: > 3 ' 255K' C ' /N.' 2>< : ' /F' 62>@ 3 @' 23@' 69B41> 5 12A' %>48' 56 ' % > 5' 54' 56 ' A2 5' 255' C ' /N' 56 >' 345' 8 B>4: 3?' 72 ' 47 3?' 54' 56 8 A:)' &4&, ' 56 >' B >: > 3)' 23@' % 2>' 4%' 56 ' $4823)' *463' C ' NL' 56 ' 143 G 31 ' 4%'56 >' 74>A@A9' B4A 19)' &4&, ' 56 >' 345 43 ' 4%)' 2' %% > 3?' 26)' *463' C ' N' 56 >' ;A 3@3 ' 7 A% A)' " < C C ' NF' 4; >:25 43 ' 43' 56 >' 8233 >' 4%'> 5 3?' 56 ' %4>1 ' 4%' 2' 8 >21A)' *463' C ' N/' 56 >' 162>215 >' 3' 56 ' 2B4 54A 12A' 2?) /' 5' : ' /0' 56 >' 1435 35 4 ' 525' 3' 56 ' 28 ' 2? ' 2AA @ @' 54)' *28' : ' /' 5 5 8 439' 4%' *4 B6 ' 54' 56 >' 7 1< @3 ' 3' 6 '5 8)' $48' ' /')

T T'+ @?8 35' 6 @ 34 31 @' 2?2 3 5' 56 8)' 3A ' 56 9' > B 35 @)' " < ' C ')' 0' 7625' 56 9' CB 15 @' 6> 5- ' % > 5' 2BB 2>231 ' 54' ;)' /' 4>' ' FF' 143 G 31 ' 4%'56 >' @ 2BB4 358 35)' &4&,-# 56 >' > + 15 43' + 5% @' ; 9' 2' B2>2 ; A ' 255' CC ' FL' 56 >' B 3 68 35' 23@' 56 ' + 5 1 ' 4%' 5)' : >' N/-# #4@- ' @ 2A 3? ' 7 56' 56 8)' 23@' 56 >' ; 62: 4 >)' AA 5>25 @' ; 9' 2' B2>2 ; A)' : >' 0)' W) L' 2' 1A 2>' B>4B6 19' 4%' 56 >' > + 15 43)' : >' N ' 3' 7625' -' +4@- ' ?44@3 ' 54' 56 8' 143 5 @)' $48' ' N' 56 >' 7>43?' + @?8 35' 4%' 5)' &4&, ' 769' #4@' 7 56@> 7' ' ?>21 ' %>48' 56 8)' 2><' : ' /F' 56 >' A2 5' 5> 2A' 35 8 25 @' 2 ' 25' 623@' ' 255) ' / ' 56 >' B 3 68 35' ; 9' 56 ' $4823' 2>8 ' %4> 54A@' 255) CC ' W' : >59' 4%'B 3 68 35' @ 34 31 @' 2?2 3 5' 56 8 ' 255)' CC .' 0' 6> 5 ' 5 3@ >' 2%% 15 43' 5472>@ ' 56 8)' 23@' 3@ 2D :4 > ' 54' > 1A2 8' 56 8)' : >' W' @> 2@% A' @ 5> 15 43' @ 34 31 @' 2?2 3 5' 56 8)' " < ' CC ' FJ ' //' 56 >' @ 5> 15 43' %4> 54A@)' " < ' C C ' /F)' FW.' CC ' /M' 56 >' 2BB>4216 3?' 8 > ' B4< 3 4%' *28' , ' / ' C5 35' 4%' 56 8)' &4&,& 764' 345 1 @' 2 ' %% > 3?' 3' 56 8)' &4&,+

TT '56 >' 625> @' 2?2 3 5' 823< 3@' 3' ? 3 >2A)' /' 6 ' .' /0' 23@' B >: > ' 4BB4 5 43' 54' 56 ' #4 B A)' &4&, ' 647' 2 @' Q 54' % AA' B' 56 >' 3 ' 2A729)-' : >' /M' @ 55 15 43' 4%' 56 >' > A ? 4 ' 23@' 1 : A' 525 ' %4> 54A@)' &4&, ' 56 >' > + 15 43' %4>' 3% @ A 59' 34' > 2 43' P' 4%' 148 BA2 35' 2?2 3 5' #4@)' $48' .' N' 2>? @' ; 9' 5' 2 A' %>48' 2' 143% 43' 4%' 2: @)' &4&, ' > % @' 54' 2A 5' 2' # 35 A) [255' ' NW' 56 >' 3+ 5' 23? >' 2?2 3 5' 56 ' # 35 A ' % 3 A9' > D B>4: @)' " < ' , ' F .' 56 >' C2A5 @' @ 2' 4%' 56 8 A:)' 23@' A47' @ 2' 4%' 56 ' # 35 A)' 15 ' C ' /L' % > 5' 12AA @' 54' 56 ' #4 D B A)' ; 5' # 35 A ' % > 5' 2@8 55 @' ' 255' CC ' /M' # 35 A ' 54' ; ' > 1 : @' 354' 56 ' #4 B A' 14: 3235' ; %4> ' 56 8)' " < ' C ' FJ) ' 769' 56 ' #4 B A' % > 5' B> 216 @' 54' 56 8)' $48' ' AM ' 56 > ' 5> 15 43' 2 ' 54' 8 25 '52< 3' 4%%' %>48' 56 8-# 15 ' C ' /0 ' 56 ' B2>D 5 5 43' ; 57 3' 56 8' 23@' 56 ' # 35 A ' ;>4< 3' @473)' : >' 0' P TT' 3; A : 3?)' @23? >' 2BB> 6 3@ @' %>48' 56 8' ; 9' 5' 2 A)' $48' , ' /

T T' 647' 48 '4%'56 8' > 823 @' 56 ' 6 >16' 4%' *, ' $4 A ' C ' F' 56 >' 2 564> 59' 2843?' 56 ' 143: >5' # 35 A)' 35 4@ ' 54' $48' B2>' M' 12 ' 4%' 5.' &4&, ' 2@:2352? ' 56 9' 82@=' 4%' 5)' &4&, ' 23' 4112 43' 4%' 5>4 ;A ' 54' 56 ' # 35 A ' 143: >5 ' 23@' 2' B>= @ 1 ' 54' 56 ' #4 B A.' * ' 8 16' 148 BA2 3 @' 4%' ; 9' 5.' 8&& ' &4&,+

T '56 >' 4B 3 43' 5625' 4 A ' 8 ?>25 @' %>48' 43 ' ; 4@9' 54' 23456 >' 2%5 >' @ 256)' *463' C ' F' 56 >' 1 54 8' 4%' ; > 3? 3?' B' : 3' 564 ' 764' 7 >' ; 5' @ 125 @' 54' 48 ' % A' 12AA 3?' 15 ' C: ' ' 56 >' 1 548' 4%'> 1A 3 3?' 25' 56 >' 8 2A .' " < ' : K' Ha&

M 2%' 25' >29>62)£ 3' 328)' ; 5'> 2AA9' 23 2> ' 1% 2523)' $: ' J' ']

T T' 56 ' 5 8 ' 4%' 56 >' ; 3?' #4@- ' B 1 A 2>' B 4BA ' CB > @)' 23 C ' FN ' B>48 '54' $ 8' 82@ ' ?44@' 54' 6 >16' 4%' 6> 5)' ' : ' /N' + @?8 35' 43' 56 3>' @ 34 31 @)' 2 .' : ' /' 564 ' 764 > + 15 @' 6> 5' > % >> @' 54)' U < ' CC ' L' 56 >' 7> 516 @' 143D @ 5 43' 2%5 >' > + 15 3?' 26)' ' C C ' FF' 56 >' > + 15 43' B> D % ? > @)' ' CC C '

T T' %4> 54A@' ; 9' 4 ' 5625' 56 9' 64 A@' ; ' 345' G 5 ' @ 5>49 @)' ; 5' 1255 > @' 4: >' 56 ' 74>A@ ' 35)' CC: .' ' 5625' 56 >' < 3?' 64 A@' ; ' 12>> @' 12B5 :)' : >' M ' 647' 56 9' 7 > ' 54' ; 148 '23' 2 543 68 >5-# 2' B>4: >;)' 23@' 2' ; 974>@)' : >K' W' 76 3' % A% AA @)' &4&, ' 56> 25D 3 @' 7 56' %28 3)' : >' L' 76 3' % A% @)' &4&, ' 56> 25 3 @' 7 56' 56 ' A4 ' 4%' 56 >' 16 A@> 3)' : >' N/

T ' @ :2 525 43' 4%' 56 >' 14 35>9' ; 9' 56 ' $4823 ' %4> 54A@' ; 9' 4 ' 23@' > 14>@ @' ; 9' *4 B6)' 5' CC: ' 0 ' 8 A5 5 @ ' 4%' 56 8' 5A 25' B > 6 @' 25' 56 ' ? ' 4%' * > 2A 8)' Q1' : >' DJ-# 5> 258 35' 4%' 56 '12B5 :)' : >' M ' ;+ 15 43' 23@' @ B4B A25 4>' 4%' 56 >' 14 35>9)' &4&, ' C1 : ' %28 3 ' 54' 76 16' 56 9' 7 7' @> : 3' 2114>@ 3?' 54' 56 ' B>4B6 19' 4%' 4)' 5' CC: ' 0 ' M' 56 ' 8 8 3 ' 3 8 ; >' 4%'56 8' 82@ ' 12B5 : ' 25' 56 ' @ 5> 1D 5 43' 4%' * > 2A 8)' " < ' CC ' FN.' V 16' C : ' F' @ 4A25 43' 4A' 56 >' A23@' >5' 56 ' 5 8 ' 4%' @> 23.' 5' CC C ' F ' 8 >21 A4 ' @ B > 43' 4%'56 8)' 5' CC: ' MN

T = ' B> 35' 143@ 5 43' 4%%' 2' 5>43?' 2>?3 8 35' %4>' 56 ' 6> 5 23' %2 56)' 5' C: .' F.' B 1 A 2> 59' 4%'56 ' 12)' &4&, ' ? 3 >2A > .' %A 15 43 ' 43' 56 >' B> 35' 43@ 5 43)' , >' D>-# 1435>2 5 @' 7 5A' 56 >' %4> 8 >' B> : A ?)' &4&, ' 23' C2 8 BA ' 4%' : 3 '+ 5 1)' : >' D<-# 23@' 23' 2@ 843 5 43' 54' 6> 5 23 ' 23@' 3% @ A)' &4&, ' 56 ' B> 35' 525 ' 2' % A% A 8 35' 4%' B>4B6 19 ' .' : .' /'" ' ' JH-# 3 &&' B> 35' 525 ' 59B % @)' 4 ' F)' ' 56 >' 1435 3 231 ' 2 ' 2' @ 5 315' 23@' B2>25 ' B 4BA ' 3 C2 8 BA @' 23@' 8 >213A4)' 35 ' $$$' / ' 56 >' 1435 3 3?' 2' @ 5 315' B 4BA ' 143 @ > @)' * > ' CC7 ' / / ' 43 ' B >B4 ' 4%' 56 > B> >: 25 43) V 16' C ' / ' 56 >' 3' 3' < AA 3?' 26' 345' 54' ; ' > 84: @' 7 564 5' 2' ? 3 >2A' > D B 35231)' : >' / ' ; 2>' 7 53 ' 54' 5> ' > A ? 43' ; 9' ; 3?' 2' @ 5 315' B 4BA)' : >' / ' 56 >' 148 BA 231 ' 7 56' 56 ' @4A25>4 ' 74> 6 B' 4%'56 ' 16 >16' 4%' $4)' 5' CC: ' MN' 56 >'5> 5' 3' 56 >' 473' > ?65 4 3)' U < ' CCC ' / ' 56 >' > + 15 43' 3 D 56 >' 5452A' 34>' % 32A)' $48' C ' F0' 56 >' > 54>25 43' 54' 56 >' 473' 14 35>9' B> @ 15 @)' 5' CCC ' / ' 56 >' 143: > 43' 54' 6> 5' 56 ' B> A 8 32>9' 143@ 5 43)' &4&,-# : >' 0' ' 43: > 43 2' ?32A' 143: > 43' 4%' 56 8' 3 2>' 6> 5- ' 143@' 148 3? %4> 54A@)' 4 ' C ' ' 56 ' > 8 3235' 4%' 56 8' 62AA' ; A :)' V 1A ' C ' ' 7625' 56 >' ? 3 >2A' 143: > 43' 7 AA' B> :)' $4 C>.' /F.' 345' 54' ; ' 564 ?65' 8 B>4 ; 2 ; A)' : ! ' 84>' B>4 ; 2 ; A ' 5623' 2' 5625' 4%' 56 ' # 35 A)' : >' FN' 769' 5 >8 @' 2' 89 579)' : 3' F0' 2' ;+ 15' 4%' 231 35' B>4B6 19)' : >' ' 647' 5' 2BB 2> ' 5625' 16' B>4B6 1 ' 2>' 345' 9 5' 2114 8 BA 6 @)' &4&, ' *$0, ,' 3' 1> B5 >)' : >' F' 52< 3' ; 9' 5' 2 A' %4>' ?>235 @)' ' 4>' .' A ' > 1 : @' 415> 3 ' 4%' 56 ' 6 >16' 4%' 6> 5)' $48' C ' F' > =' %A 15 43 ' 43' 56 >' B> >: 25 43)' : >' M' 23@' B> @ 15 @' 143: >D 43)' &4&, ' 23@' 43' 56 ' B>4B >' 143@ 15' 4%' 6> 5 23 ' 547 2>@ ' 56 8)' &4&,+

Q P4%'56 '@ B > 43)-' > 82>< '43' 56 ' 3 1> B5 43' 4%' %' *28 - B 5A ' 54' 56 8' *28 ' ' /

T T' > A ? 43)' 7625' 5' ?3 % .' #2A' ' /N

` ` ' (-,' X - 8 ' 769' 0(,' ' 3 7' 823)-' B6 ' ' + (, (00 -. 3 < ' #

M o @ .' 6 >' C5> 8 ' 7 1< @3 ' 2> @' 62>@3 ' 4%' 6 2>5)' / ! 3? ' C C ' F' 69' 6 ' @ > 15 ' 2' %2 5' 54' ; ' B>41A2 8 @)' / ! 3? ' CC ' G' 6 >' 62 ?659' B > 5)' F' ! 6? ' C ' ' 6 >' B2 35 3?' 6 >' %21)' &4&, ' 6 >' ; 4@9' 25 3' ; 9' @4?)' : >' 0' > %A 15 43 ' 43' 6 >' %2AA)' &4&,-#

M o @ .' 328 '4%' 4 2- ' 43' 625' 5' ?3 %)' 4 .' ' N5 6> D 523' 6 >16' % 5A9' 59A @)' 4 ' ' F/ ' 743, '2AA @ @' 54)' : >' F 5' 5 25 43)' 23@' %> G 35 8 35 43' 4%' 5' >5 * 7 6' 6 54>9 * @?' : ' ' > 82>< ' 4 A' 62 ; - ' B2A21 '56 >)' / ! 3? ' C: ' NO' CC ' / ' ' : 2AA 9' 4%)' 5 ' 5 25 43)' # 55 ' CA ' > 0.' *6@?' : ' .

L L' @29' 4%)' 7625' 5' ?>5 % .' 4 ' ' / /

+ >)' 6 '5> 2%16 >9' 3' >2 6A > > ?' ; 6 >)' F' 28 ' ' FW' 6 ' 8 ' 5 : '%4>' 4' @ ; 3?)' &4&, ' 6 1 383?' @ @ .' F' 253' C : ' F' 6' 845 : '%4>' ! A > ?' ; 2A48' F'= 8 ' C: A%' /N' 3 5'+ 5 % @'

$ &' '

2$*S

+=52?) C A2 5 4 >2 A) 56 > %2AA B> @ 15 @) 4 : +
T T 3 B>4B6 5 1< 59A 8 23 3? < 3?@4 8) 4> 4> 8 4 ?4: >3
8 35) $: C:) /) 56 : 3 [< 3?)- 4> 4> 8 4 $45323
?4: >3 8 35 CBA2 3 @) &4&,+
T T 56 57 4 ;44< 4) 56 > 2 564>) ? 3 >2A 1435 35) 23@ : 3
2 564> 59) 35>4@ 54 56 / 5 23@ F3@ ;44< 4 ! 3?
;44< 4) A ?65 @ 1> B231 ; 57 3 56 8 23@ 56 ;44<
4 6>43 1A CBA2 3 @) / ! 3? C F) FL
8 456 >) 2 5 5A 4 @ ?3 59 3 5 A) / ! 3?
! 3?@4 8) 2 34;A 8 23- ?4 3? 54 > 1 : 43) 56 B2>2;A AA D
5>25 @ 23@ CBA2 3 @) " < C C /F
T 4 # 4@) 5 3 3 56 "4>@- >29 >) 255 : /
4 # 4@ 23@ > ?65 4 3) 7625 5 148B> 6 3@ 255)
:
T [4 9 256 >)- 7625 5 8 23 255 CC: FJ
T T 4 6 2: 3) 4> 4 # 4@) @ > 35 3 4 56 CB> 43 CD
BA2 3 @) 255 , H @ 4>56 6> 5 23 @ B 3 25 43) 4> 525
4 56 # 4 B A) 255 F. CC F. CC: /
4 B> 5) 7 69 56 >2 A 5 4 12AA @) C4@) C C M
! 3?@4 8) 3 1> B5 > ?3 %9 345 43A9 564 8 35 43 @) ; 5
456 > A < 56 8 C
4 56 74>A@) 647 6 73 54 4 > "4>@ 3 5 8 B525 43)
255 : L
T 56 5 3) 354 7 6 16 56 $4 8 23 8 B > @ : @ @) 23 : <
! 3?A9 %4> 8 4 ?4: >3 8 35) 5) 52;A 6 8 35 3 * @ 2 2 @ D
5 3? 6 @ >2) / 28 : F 62@ ; 3 B>4B6 5 12AA9 @ D
1A2> @ ; 9 4) &4&, 5 A25 35>4@ 15 43 ?> 25A9 143 > 8 56
: 3 2 564> 59 * 3 4 2 1< A27) &4&,+
! 3 8 3) 7648 % 2 A 59A 4) $4 8 C: W
Q 5 5 25 43 23@ 143@ 5 43) F ! 3? C: J. CC D2 8 4
0
0 &1 2&(76 > 5 25 @) * > CA: /
0 & 76 > 5 25 @) * > CA:
0 & 76 >) 5 25 @) 8 4)
Q (@ 8 23 3? 4 56 328) # 3 CC F. 8 ;)
C FF
0 & 1 (& 5 5 25 43) / 28 : F 647 A43? 56 2><
1435 3 @ @ >) &4&,+
Q % > 23@ 14 > 4 56 > : >) * @? :) W
! 4 162> 59) 769 4 12AA @) $4 8 C: 76 3 23@ 76 >
@) &4&, 7 69 A2 @ 2 @ : >9 2>A9) &4&,+
! 3?) 2 8 2>< 4 6 ?6 > B 15 3 56 2 5) # 3 CA N 4 > : D
> 31 23@ ;+ 15 43) 28 C 23 215 4 64 8 2? 23@ 74>D
6 B) \ 23 2A 8 4@ 4 2A 525 43 2 8 43? 56 * 7 255) CC:
NL . " < : NO
! 3 2@ 3?>4 ?6) 7625 , A 35 3@ @ ; 9 56 CB> 43 C4@
< N 7 69 12>> @ ; 9 56 >2 A 5) &4&,+
! 3 A 3?) B>4B > B4 5 > 4 B>29 >) C1: 2 B>44 4 4 >
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! 3 %) [B 5 2 <3 % 54 569 56>425)- 2 ; 4A@ 2 5 >3 B6>2) CBA2 3D
@) >4: CC J
! 3 :) 4> 1 >1 8 1 43) 8 2@ 4 %A 35 3 56 2 5) *4 6 : F
<3 : 4 56 28 @ 1> B5 43 4>8 >A9 @ 3 &> 52 3) &4&,
! 345) @ 4A: 3? 4) B6>2 647 @ 3 > 2) 23 : /F
! 347) 8 23 3? 4 # 4@ <347 3? ;>2628) # 3 CC /F
; 9 328) 2 82>< 4 %28 A 2> 59) C4@ CCC > 2 43 4 %
5 ; 3? 4) &4&,+
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%%56 4>@) 35 W. *4 ; CCC C . 4? . 1 N
T T ?<3 7 345 56 "4>@- CBA2 3 @) * @?
[62@ 345 <3473 3) Q1 - [62@ 345 <3473 A 5) Q1 - CD
BA2 3 @) $4 : W
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T T [54 <347 * 6> 5 23@ 8 1> 1 % @)- 3 8 >4 B2>5 D
1 A2> 14352 3 @ 3 5) 4> 8 52< 1431 >3 3? 56 ; 5
8 564@ 4 2552 3 3? 5) &4&,+
[56 8 7 6 16 A2 ; 4 >28 43? 94) . CBA2 3 @) 6 :
A9
! 347 3? ?44@ 23@ : A) CBA2 3 @) # 3
! 347A @?) 7625 5 4%5 3 ?3 % 3 1> B5 >) 23@ 7 69) 5
CCC P
]]]]] 3 4 > B> 35 525) @ %% > 31 ; 57 3 5 23@ 5625 3 2
, 45
% 5 > 525) / 4> C A AA 5>25 @ ; 9 56 525 4 16 @
644@) &4&,&+
! 347A @?) 7625 56 B>4B > 4 ; + 15 4 3 > A ? 4 8 255 >) 5
$$ $ 7625 56 1435>2>9) &4&,
4 6> 5. G 2A 59 4 5 25 76 16 5 2 A @ > @) 6 A %
/] K
T T 6> 523) 7625 56 3@ 4 5 4A /
: 3) B >% 15 43 4%) 647 ?3 % @) * > C: /
4 # 4@) 7625 5 148B> 6 3@) 23@ 647 5 5 % @) 4 F .
: D ±
T B>215 12A) 4 45 > @ 59) 56 5> 523@ 84 5 C1 AA 35) 5)
CC C 4 > B> 35 @ ; 9 4) &4&, 23@ ; 9 4 > 2: 4 >)
&4&, 8 29 ; 4 ; 52 3 @ ; 9 2AA 764 < 5) &4&, 56 3@ 4 # 4@
148 823@8 35) 4 & D)
T T > A ? 4) 21G 5 43 4%) 769 B 1 2AA9 3 1 2>9 54 56 % > 5
143: >5) J 5 0 769 5 AA 3 1 2>9 54 6> 5 23) &4&, 2
1 > 59 2?2 3 5 >>43 4 4B 3 43 23@ 8 B>4B > 143@ 15) &4&,+
2: 3? 43 7625 %4 3@ @) >4: W
4 3 ; 9 56 B>48 A?25 43 4 56 A27 76 16 %4>; @ 5)
> 62>< 43) $4 8) : W
T T 33 3? 2?2 3 5) 2 ?> 25 2??>2:25 43 4 3) *2 8 :
T T 823 4%) 7 69 2 @ 54 [31> 2 5> 3?56)- >4: CC : 0
74>@ 4%) CBA2 3 @) >4: C C FW
T [<347 56 A4: 4 6> 5 76 16 B2 <347A @? - CBA2 3D
@) B6
6 5 5 25 43) U < CC F
Q 647 > A25 @ 54 4 23@ 2>43) 8 ; C: 4112 43
4 6 @ 1435 35) &4&, B>4 ; 2 ; A @25 4 5) &4&, %2A 644@ 4 6
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6 B 3 6 8 35 2 5> < 3? 3 5231 4 56 : 3 B47 >) : > /
> 8 2>< 43 56 @ %% > 31 ; 57 3 6 @ 5> 15 43 23@ 5625 B
25623 23@ ; >2 8) : >) F 7 69 56 1 3 > 4 6 148 B239
52< 3 4 5 4 56 % >) : > . 7 69 6 16 A@> 3 345 3 :4A: @ 3
6 @ 5> 15 43) : > F 6 ?2 3 29 3? CBA2 3 @) * @ : > / /
T T 43 4%) B>4 ; 2 ; A9 23 8 3 35 4>@ > 4 3? >) C >
5>4@
= @ 6 8 B4 5 43 43 *214 ; 3+ 5 % 2 ; A) # 3 CC%C F0)
5 .#
"2 ;4 >) 56 A45 4 2AA @2 8 - 16 A@> 3) # 3 8 5 ; 21D
148 B23 @ 7 56 B>29 >) 1CC: 0 B> 1 B5 4%) 769 +4 3 @
7 56 56 B>46 ; 5 43 4 5 2A56) B6 : FL
"2 ;4 > > 3 56 : 3 92>@) 3% > 31 %>4 8 56 B2>2 ; A 255K CC)
> ?65 3 5> 15 43 54 ; @ > : @ %> 8 3 5) : > ! +
e 1 6 647 ; > 56> 3 4 56 * 7) / 21 C W)F / K
! 1 6 76 > 5 25 @) 1 /
"21< 3? 3456 3?) > 16 4 6 8 764 @4 4) / 6 : /F
7625 3 1 2>9 4> 56 B >B4) &4&,+
"2@@ >) 35 >B> 525 43 4 *214 ; A2@@ >) # 3 CC: J A
= % ; 9 7625 @ ?325 @) 23 F
[2 @ B 3 54>) 23@ 2A @ B) Q1 - CBA2 3 @) 5 CCC
N
"2 8 ;) ; > 7 74>@ ?3 % 2 < @ \2A 4) C4@ C 45 > 2D
: 4 > B> 35 @ 3@ > 56 98 ; 4A $: : M 6 : 3 64>3
23@ : 3 9 CBA2 3 @) &4&,
T T 4 # 4@) 6> 5 B4 35 @ 4 5 ; 9 56 328 2 56 CB 254>9
21> % 1 4> 56 3 4 56 74>A@) *463
3@ > 56 5 5A) : > FJ) M
"2 8 ;) 56 > %25 3 21> % 1 143 8 @ 8 56 2A52>) CCC:
F 2=> 25 @ A 1219 3 56 2 5) 8 4 : N > 8 2>< ; 3 56 >
; 3? 35 54 2: @ 23@ 6 6 > C: / 28 2A B> 35
3 56 2 5) &4&,
= @ %% 1 A59 4 3@ > 523@ 3? 6 B 16) # 3 : F
"2 8 3525 43) 2 84 >3% A @ 559) 647 2BBA @) U < CC: F
"2 8 3525 43 25 % 3 >2A 2AA @ @ 54) 8 4 : /
4 * > 8 26) % : 162B5 > 4%) 14352 3 % : A ?) 76 3
148 B4 @) 56 84 5 B >% 15 A ? 21< 148 B4 5 43) 216 A ?9
14352 3 57 359 574 B > 4@ 2114>@ 3? 54 3 8 ; 4 A 55 > 3
; > 7) 35>4@ 54 "28 35
"28 B) [? : 6 8 2 A28 B)- % ? >25 : A9 @) / ! 3? C: ,N
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3 CBA2325 43 4 2 B2 2?) &4&, 2 %2 8 A 2> 8 4@ 4 CB> 43
7 56 56 * 7) 7625 @ 345 3?) *463 9 0

2 K ; 1 ' I J ' I - ; ' 9 ; 2 J29 . C ' . I I ; ME

"23@)' 4%' * @ 2)' #4@' B>4B> 54>' 4%' 5)' " : , ' F ' B>46 ; 5 43' %4 3@ @' 56 > 43)' &4&, ' B>4B6 5 12A' @ : 43' 4%' 5)' 7625' 5' @ ' 345)' U < ' CA: ' FJ ' Þ
T T' 56 ' "4>@-)' * @ 2' 7 69' 4' 12AA @)' 4 ' C '
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5A > 59)' B>4B> 59' 4%' 14 8 B2> 43)' ' 1CA '
4%' B>4 8)' 6 4 7' 59A @' 3' ? 3 >2A)' 5 ' : ' W ' > 8 2>< ' 43
5 ' % >5 A 59)' &4&, ' 7 69' 3A2>? @' B43' ; 9' ,=4 ' 3i' 5 >4D
34 8 9)' &4&, ' 345' B>4 8 @' 54' B > 43 ' ; 5' 54' 56 ' B 4BA ' 8 ;)'
C : ' ? ' ' J ' A23@' 4%
B 5' %4>' 564 ' 7 64' 362 ; 5' 5)' U < ' CC: ' L
C'#(6'!4 '> 8 4 : 3?' 4%)' 6 34 > ' 4%' 56 ' 4%% 31 ' 35 ' C C '
/N' 3 1 59' 4%' B>46 ; 5 3?' 5' 3' '// 14 35>)' &4&, ' ?> 25' 7 235'
4%' 56 8' 3' 4B 3' 14 35> ' *4 ; ' CC : ' F
"23? 2?)' 647' 23' 2>? 8 35' 3' %2 : 4 >' 4%' 4 - ' 6 54>9)' # 3 '
$ ' 1 .
' 4> ? 32A)' 31 >52 3)' # 3 ' C '
T T ' 647' 143%4 3@ @' 25' &2 ; A)' # 3 ' C ' W
T' 3 59' 4%)' B>4@ 15 : ' 4%' 2?> 8 35)' # 3 ' C ' L
' @ %% > 31 ' 4%' B>43 31 25 43' 3' 564 ' 7 64' B 2<' 56 ' 2 8)'
* @?' C ' D+
2AA47231 ' 54' ; ' 8 2@ ' %4>)' 2@@> @' 54' 2 5 >3' B 4BA)
U < ' CC ' F ' '
54' B 2<' 5625' 4%' 23223)' 7 625' 5' ?3 % ' ' C C ' / L
7 625' B> 1> ; @' ; 9' 5' 2 A'%4>' 56 ' 4%% 1 ' 4%' > A ? 43)' / 4>
' C : ' / ' 3% > 31 ' 7 56' > B 15' 54' 56 ' 16 >16' 4%' $ 4 8)' &4&, +'
/\ ' 5' 5 25 43' 23@' G 2A 59 ' 4A' ' / 2 $: ' ' /N' 5A '
B 5A ' %>4 8)' 7 625' B>4 ; 2 ; A9' 8 235' ; 9' 5)' 4A' : ' / M'
= % ' 16 >16' 4%=' 5 ' B> 35' 525 ' $: ' ' +' 5 ' 3@ %D
% > 31 ' 23@' 31431 >3' 2 ; 4 5' > A ? 43)' : > ' / ' 5 ' B> 8 @'
7 2A56)' ; 5' > 2A' B4 : >59)' : > ' /W' 647' C64>5 @' 54' ; 9' > 2A'
7 2A56)' : > ' / L
"2B)' 62< 3?' 56 'A2B)' 7 625' CB> @' ; 9' 5)' 6 ' : ' /
= D ' 143+ 15 > ' 1431 >3 3?' 56 ' 328)' * @?' : ' N '
"2 1 : 4 3)' 7 625' 8 235' ; 9' 5 >3 3?' 56 ' ?>21 ' 4%' # 4@' 354)'
* @ ' : > ' N '
"2 5' @29)' 7 625' 56 ' 74>@ ' @ 345)' # 3 ' CA C ' / .' 15 ' ' / W.
F' 8 ' ' / .' ; ' ' F
T T' 5 8)' 7 625' 8 235' ; 9' 5)' / *463' ' / L
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5 8)' CBA2 3 @)' / 8 ' : ' / L
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BA 125 43' 54' 216' 4%' 56 ' % : ' ; 44<)' &4&, ' @' 54' @ 345 ' 2AA' 56 '
* 7 6' 1> B5 >)' $ 4 8 ' ' +' #2A ' : ' FF.' *463' C ' N.' C '
N' @' 3' 4BB4 5 43' 54' 56 ' #4 B A)' $ 4 8 ' ' F ' > 8 2>< ' 43'
56 ' 8 23 3?' 4%' 56 ' 5 >8)' &4&, +'
; 44<' 4%)' B>4 ; 2 ; A9' 43 ' 1435 3 @) ; 44<)' 5 ' C C ' FM ' 7 6 3
@ : @ @' 354' % : ' ; 44<)' &4&, ' 64 =' B4AA 5 @)' / 21 ' ' NL
T T 4%' 4)' B 1 A 2>' 1 >1 8 5231 -' 3@ >' 7 6 16' 5' 72 ' @ D
A : > @)' 5' : ' 0 ' 7 69' @ A : > @' 54' 56 ' >2 A 5 ' 7 56' 2' 5 >
' > % 1<' 2BB 25231@)' C4@ C C ' AM ' 5 ' @ A : >9' 8 ; A 8 25 12A' %56
A2 5' + @?8 35)' : > ' FF ' > %A 15 43 ' 56 > 43)' &4&, ' > 3 72A' 4%)'
B>44%' 4%' #4@- ' > 1431 A 25 43)' C4@ ' CCC : ' / ' 4A 8 3' B>4 8 AD
?25 43' 4%' 5' 25' 56 ' % > 5' 55A 3?' 4%' 56 ' * 7 ' 3' 23223)' *4 6)'
: ' ?: ' 8 B4 ; A 59' 4%' 239' 1623? ' 3' 5)' &4&, ' > 8 2>< ' 43' 2'
14>> 15' 14B9' 4%' 5' %4 3@' ; 9' A< 26)' F' ! 3? ' CC ' L ' 14B ' 4%'
5' 56 3' C5> 8 A9' 12>1)' &4&, ' 56 ' ?34>231 ' 4%' 5' 56 3' B> D
: 2 A 3?' 647' 54' ; ' 2114 35 @' %4>)' &4&, ' 647' 5> 25 @' ; 9' @4AD
25>4 ' * 7)' U < ' C : ' ?']
' , 2> 4 ' 2>? 8 35 ' 4%' 5 ' : 3 ' 4> ? 3)' C4@ ' CC ' .' " :
C: ' .' CC: ' N .' 5' C: ' / M .' C: ' AM .' CC: ' F' 143 5D
35' 7 56' 56 ' B>4 8 ' 54' ;>2628)' #2A ' ' F / ' 7 69' 2AA @'
['% >9' A27)-' 5' CCC ' F' 7 69' 2 @' 54' 148 ' %>4 8 ' #4@- '
> ?65' 623@)' &4&, ' 3> : 2AA @' 3' B4 35' 4%' 6 8 23 59)' C4@ ' CC ' / '
? 2>@ ' 2?2 3 5' : >9' B 1 ' 4%' 4BB> 43)' &4&, ' 2' 1> 5 > 43' 4%'
56 ' C1 AA 31 ' 4%' 56 ' * 7 6' > A ? 43)' &4&, ' ; 47' 52 ; A 6 @' ; 9'
5' 2 A- ' @415> 3)' $ 4 8 ' ' / ' 7 6 > 3' 5' @ %% > ' %>4 8 ' 56 '
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3' F ' 7 625' 5' ' 59A @' 3' 43 G 31)' &4&, ' %4>' 7 625' B >B4 '
? : 3)' #2A ' ' / J ' 345' 35 3@ @' 2 ' 3 1 2>9' 54' 2A : 25 43)'
647' A43?' 5' 72 ' 54' 435 3)' %%55@' ; 9' 764 ' 8 3 5>25 43' @ D
A : > @)' #2A ' ' / J ' 7 69' 12AA @' 56 ' 14 : 3235' 4%' @ 56)-' F' 4>'
6 ' W' 5 ' 3% > 4> 59' 54' 56 ' #4 B A)' " : ' C ' F ' 7 69' 2 @' 54' ;
7 2<' 56>4 ?6' 56 ' %A 6)- $ 4 8 ' : ' ' ; 2> ' 5 5 8 439' 54' 5^'
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% 52 ; A) ; ' : ' / L ' ?A4>9' 23@' C1 AA 31 ' 4%)' 7 6 > 3' 3% > 4 >'
54' 5625' 4 %' 56 ' #4 B A)' F' 4>' ' /
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8 4>2A)' 4%' 3 : > 2A' 4 ; A ?25 43)' &4&, ' 1 > 8 43 2A)' > A25 3?' 54' 56 '
B> 5)' Q1 ' &4&, ' 1 : A)' > A25 3?' 54' 56 ' 1 : A' ?4 : >3 8 35)' &4&, ' 1 > D
8 43 2A' 23@' 1 : A' A27 ' 35 > 8 C @)' &4&, ' 4%' A 8 5 @' 4B >25 43)' &4&, +
T T ' 8 4>2A)' 5 ' C1 AA 31 ' 3' 52 ; A 6 3?' 2' B>4B >' B> 31 BA ' 4%'
215 43)' 5 ' 9 ' 0 ' 3' 7 625' 5 ' 162>215 > 5 1<' C1 AA 31 ' 143D
5)' &4&, ' 56 ' %4 3@25 43' 4%' : >9' 8 4>2A' : >5 ' " : ' CC ' I+'
7 @4 8 ' 4%' 5)' 5 ' : ' : >2A' 4%' 5 ' B>4 : 43 ' 2@4B5 @'
; 9' 56 ' 7 >' 6 256 3)' &4&, ' B>44%' 4%' 5 ' C1 AA 31 ' " : ' C C
LF ' 3' 6 7 3?' > B 15' 54' 4A@' 2?)' &4&, ' 3 5231 ' 4%' 5 ' 5 3D
@ >3 ' 54' 56 ' % A 3? ' 4%' 56 ' B44>)' 5 ' CC : ' ' 45' 2 ; 4D
A 6 @)' $ 4 8 ' : ' N
T T' 1 > 8 43 2A)' > % >> @' 54' 3 ?6 ; 4 > 3?' @4A25>)' C4@ ' C ' H+'
5 ' 3 5 5 5 43)' 43' 7 625' 345 43 ' 2A43 ' 56 9' 123' ; ' CBA2 3 @ '
" : ' C: ' / / ' B>44%' 4%' 5 ' 7 @4 8 ' " : ' CC ' F0 ' 647' 6 73' 54'
; ' 2 ; 4A 6 @)' V 16 ' C : '
T T ' 8 3 1 B2A)' B>44% ' 4%' 5 ' C1 AA 31 ' 3' B4 35' 4%' 6 8 23 59)'
C4@ ' CC ' ' 5 ' 3 C2 8 BA @' 8 A@3 ' 23@' G 59 ' " : ' CC :
' 3 5231 ' 4%' 5 ' ?44@' %% 15' 43' @4 8 5 1<' : >5 ' 23@' 62BB D
3)' 8 ;)' CCC : ' ' 3 5231 ' 4%' 5 ' + @ 1 4 ' : > 59' 7 56'
> B 15' 54' @4A25>9)' 5)C ' ' > 8 2>< ' 43' 5 ' C1 AA 31 ' 7 56'
> B 15' 54' 56 ' 2 ; ; 25 12A' 9 2>)' 5 ' C : ' ' C2 8 BA ' 4%' 5 ' 6 D
8 23 59' 23@' G 59' 7 56' > B 15' 54' >:235)' : > ' ' 3 5231 '
4%' 5 ' 7 @4 8 ' 7 56' > B 15' 54' 8 23 A29 >)' 5 ' C C ' N ' 4%' 5 '
G 59' 7 56' > B 15' 54' %2A ' 6& O ' ' %+' I +' - %** ' * ' 5 ' 143D
@ >25 ' ; 3 : 4A 31 ' 3' ?>235 3?' 3@ A? 31 ' %* ' 8 A 52>9' >D
: 1)' 5 ' ' 0 ' 3 5231 ' 4%' 5 ' 7 @4 8 ' 7 56' > B 15' 54' 56 '
% 3@ 3?' 4%' @ 2@' ; 4@)' 5 ' CC ' ' 4%5 3 @' 56 ' 64>>4 > ' 4%'
72>)' : > ' ' = 5 ' 7 @4 8 ' 3' 56 ' > ? A25 43' 4%' B25 >32A' B4 7 >)'
: > ' / L
4%' %2 56)' 647' 56 ' #4 B A' ' 4' 12AA @)' $ 4 8 ' ' FW ' 7 69' @
54' @ 345 ' 56 ' 6> 5 23' > A ? 43)' &4&, +
4%' A ; >59)' 3' 7 625' > B 15' 56 ' #4 B A' ' 4)' *28 ' ' -' 7 69
56 ' #4 B A' 4' 12AA @ ' *28 ' ' F0 ' 148 8 3@25 43' 4%' 564 ' 7 64'
B>215 ' 5 ' 8 4>2A' B> 1 B5)' &4&, +
PT H ' 4%' 325 >)' 56 ' A27 ' 4%') /)' # 3 ' ' / N
4%' 56 ' B > 5' 4%' A %)' 7 69' 56 ' #4 B A' 4' 12AA @)' $ 4 8 ' : ' F
' 3' 7 625' 3 ' [3 A' 56 ' A27 ' ' % A% AA @-' ; 9' 56 ' A4 : ' 4%' 4 >
3 ?6 ; 4 >)' #2A ' : ' / N
['2?2 3 5' 16' 56 > ' ' 34' A27)-' 8 23 3?' 4%' 5' 2 A' CD
BA2 3 @' 3' @ 52 A)' #2A ' : ' F ' ; + 15 43' 4%' 6> 5 23 '54' 56 ' A27 '
4%' 6> 5)' 2' B> : A ?)' &4&, +
L' ?[' 7 '<347' 5625' 56 ' A27 ' ')**, ' %' 2' 5623' ' 5' A27 % AA9)-'
7 69' 56 ' B4 5A ' 8 2@ ' 56 ' @ 1A2>25 43)' ' 8 ' ' ' B >B4>5' 4%'
5)' &4&, ' * ' 7 625' A27' 6 ' B 2< ' 16 %A9)' : '
[74>< 56' 7>256-' CBA2 3 @)' $ 4 8 ' : ' / 0
P 23@' #4 B A)' 3' 7 625' 56 ' @ %% > 31 ' ; 57 3' 56 8' 143 5)
$ 4 8 ' $' 0
"27 ' 4%' #4@)' > ?2>@' 54' 56 8' B > 4 >' 54' ((' * 3 %' 143 @ >2D
5 43)' 56 >' : ' /
T ' 4%' 56 ' * 7)' ? : 3' ; 9' 56 = "27? : >' * ' 56 ' 7 64A ' 74>A@)'
3 ' '
' "27% A' 54' 55 >)- 7 625' 5' ?8-%)' F' 4>' C N
"27? : > ' 4%' 56 ' #> <)' - .& ((/' 2 8 @' 25' ; 9' 5' =2 A)' $ 4 8 '
' FW ' ' " ? A254>
"27 5 ' 345' %4>; @@ 3' ; 9' 56 ' #4 B A)' ' 4>' : ' ' 34>' ; 9' 56 '
C2 8 BA ' 4%' 5' 2 A)' &4&, ' 3@ >' 7 625' 1 >1 8 5231 ' %4>; @@ 3)'
54' 56 ' 2>A9' 6> < 23)' ^' 2BBA 125 43' 4%' 56 ' B>46 ; 5 43' 54'
4 > A:)' &4&, +
"279 >)' 7 625' 56 ' 5 5A ' 8 23 ' 255 ' CC ' 0 .' " < ' C ' NO ' 3'
7 625' 56 ' 4%% 1 ' 143 5 @)' &4&, +
= O 5% ' #4@- ' @ ?3' 3' B > 8 55 3?' 6 ' 1<3)' *463' C ' N '
6> 5- ' 4>>47' %4>' 6 8)' *463' C ' 0 ' > %A B5 43 ' 43' 56 ' AA D
5> 4 ' 8 >21A ' 4%' >2 3?' 6 8)' : > ' NN
["29 3?' @473' 4 >' A : ' %4>' 56 ' ; > 56> 3)-' 7 625' ? 3 >2AA9' BD
B4 @' 54' ; ' 35 3@ @' ; 9' 5)' ' *463' ' 8 23 3?' 4%' 56 ' B2 D
2? ' 23@' 5 ' 1435 C5)' &4&, +
" 2@' 7 69' @' ; 9' > % 3 > =' * >' : ' J I +
" 2@ >)' 647' 2BBA @' 54' 26)' ' : ' N ']
" 233456)' 8 23 3?' 4%' 56 ' 5 >8)' ' CCC: ' 5 5A

2 K ; 1 ' I J ' I - ; ' 9M2 , 29 . C ' . I I ; ME

, J I . 2 ; K ' 2 ' I - ; ' J I ; E

"41 5)' BA2? ' 4%)' > 82>< ' 43)' C4N ' C ' N ' B 1 2A B >B4 ' 4%' 5)' &4&, ' 7 6 31 ' ;>4 ?65' 354' ?9B5)' &4&, ' 647 ' @ B4 @' 4%)' &4&,+ 12>> @' 2 7 29' ; 9 ' 56 ' B4 7 >' 4%' # 4@)' ' : > ' ')

T ' @ : 2 525 43' 14 8 8 55 @' ; 9 '56 8)' C4@ ' C ' N)' @ %% > 35' B D 1 ' 8 35 43 @' 3' 1> B5 >)' &4&, ' 345' 14 8 843' 3' ?9B5)' &4&,+ : > ' M ' 8 8 3 ' 72>8 ' 4%' 56 8 ' 3' 9B>)' : > ' /0 ' 43A9' > D 8 @ ' 2?2 3 5'5A 8)' : > ' ' 647 ' %4>8 @)' " : C F / ' :2> 4 ' 4>5 ' 4%)' &4&, ' 345' 211 >25 A9' @ 5 3? 6 @)' &4&, ' 328 @' 3' D ; > 7 ' %>4 8 ' 56 >' B>4@ ? 4 ' 3 8 ; >' 23@' 31> 2)' * @?' : ' 0 ' + 53 ' 4%' 14 8 B2> 43' 54)' 1 C ' F ' 56 >' >2 : 2 ? ' @ 1> ; @)' *4 A' ' F)' H# 34 ' 56 9 8 2<)' : > ' 0 ' 56 >' 4>@ >)' : > ' L)' J ' 56 >' 8 AA)' : > ' F ' A ' 3215 : ' 3' 14A@' @29)' 26 ' AW ' 12AA @' @ : 4 > >)' 2 ' ' / / ' 25' 56 '@29' 25 3' 3' 2)' 255) ' N '

T T [2AA 43' 54' 56 >' 62 ; 5)' : ' C ' ' ?3 %9 3?' 56 ' 2>21 3 ' 3@ >' 2648 5'23@' 6 ' 11 4>)' &4&, ' 7 > ' 54' 3+ > ' 14>> B5' 23@' @4A25>4 ' 6> 5 23)' : > ' N ' 56 ' 143% > 8 @' ; 9' 56 ' 6 54>9)' &4&, ' > B> 35 3?' 2>21 3)' 7 > ' 345' 54' < AA)' ; 5' 54' 54>8 35)' : > ' 0 ' 56 ' 143% > 8 @' ; 9' 56 ' 6 54>9)' &4&, ' 7 > ' 54' 6 >5' %4>' % : ' 84356)' CBA2 3 @' %>4 8 ' 6 54>9)' &4&, ' 325 >2A' A41 5 ' 148 D 8 5' @ : 2 525 43 ' %4>' 56 ' 8 8 >' % : ' 84356)' &4&, ' 56 >' > D 8 ; A231 ' 3' 62B ' 54' 5A ' 64>)' : > ' W ' 5A >' 62>@' 6 AA)' : > ' 56 ' 34 ' 4%' 56 >' 7 3?)' &4&, ' % ? >25 : ' A41 5 ' 62 : ' 2' < 3?)' 23@' 7 64 8)' : > ' / /

' 5 ' B>4 ; 2 ; A ' ?3 % 125 43)' / 6>43 ' : ' /F '
A 4@? 3?BA21 ' %4>' 729%2> 3?' 8 3)' CBA2 3 @)' * > ' C ' F
"4%5' @' ; 9' A +26)' 7 625' 5' B>4 ; 2 ; A9' ?3 %)' / ! 3? ' C :)' '
"4 3 ' ? >@ @)' 2A' 7 56' 2 5 >3' 5>2 : AA >)' C4@ ' C ' / / ' 23@' 7 69)' &4&,+ ' # >@

T T ' ? >5' 2 ; 4 5' 7 56' 5> 56)-' 7 625' 5' 8 23)' B6 ' 9 ' /N ' 7 625' 8 235' ; 9' [' ; > 2< 3?-' 56 8)' U < ' CC ' M '
+43? %% > 3?)' ?3 % 125 43' CBA2 3 @)' * > ' C : ' /0 4%' # 4@)' 56 ' > 2 43 ' 4%' 5 ' 255 ' C ' ' > B> 35 @' 3' 2 B2>2 ; A)' " < ' C ' M)' L ' 7 AA' 345' ; ' C5 3@ @' ; 943@' 2' 1 >D 52 3' B4 35)' / 28 ' CC : ' D
"44< @' 43)' ; 6 A@' 7 56' 25 %215 43)' ;2@ ' : > ' /F :' 1 ' :

T T ' B43)-' 647 ' @ 5 3? 6 @' %>4 8 ' [' 3)-' / *463' ' / "44< 3?' 354' *)' ?3 % 125 43' 4%' 56 ' 7 4>@' A44< 3?)' ; ' C F ' 3' 7 625' 162>215 > ' ' ' 54' ; ' A44< @' 354)' &4&,+ "44 ' 6 ' 64 ' %>4 8 ' 4%%' 6 ' % 5)-' BB4 @ 8 23 3?' 4%' 56 ' 2? ' 31 >52 3 ' 35 ' CC : ' I+ B>4 ; 2 ; A9' 2' 8 2><' 4%' 3%2 8 9)' &4&,+
= ' 56 ' "4>@' 56 ' 43' 4%' # 4@' @ 5 3? 6 @' %>4 8 ' 56 ' "4>@' 5625' ' # 4@' 56 ' ' 256 >)' # 3 ' C C ' FN
T T ' >' 12B 52A)' 7 625' 5' ?3 %)' C4@ ' * ' 56 ' 3148 8 3 D 12 ; A ' 328 ' 4%' # 4@)' B ' C ' 0 T ' 56 ' "4>@' # 4@)' 8 23 3?' # 4@' 56 ' ' 256 >' B 2< 3?' ; 9' 56 ' 4>@' 4%' 43' 4%' # 4@)' # 3 ' ' J
1111111 ' (' 0 . M- ;' (. ' ; 8 ' X '-- ' [< ; CCC : '
T ' %>4 8 ' 6 2 : 3=' 7 69' 6> 5' 4' 12AA @)' / 4>' C : ' NW)' NJ ' 7 625' ' 72 ' 56 'G 2A % @' 54' @4)' &4&,+ T ' 328 ' 4%)' 148 843' 54' 56 -56> ' > 43 ' 4%' 56 ' > 3 59)' / 4> : ' M ' B 1 A 2>A9' 2 1> ; @' 54' # 4@' 56 ' 43)' &4&,+
T '4%' A4>@ ' "4>@' 4%' < 3? ' 4%' 56 ' 2>56)' ' 1CCC : ' ' P T' 23@' >:235)' 8 4@ '4%' 1 : A 59)' # 3 ' CCC ' N ') A : 56)' 4256' 2 8 43?' 56 ' * 7)' * > ' : ' F
"4>@-' @29)' @ 5 3? 6 @' %>4 8 ' 56 ' * 7 6' 2 ; ; 256 ' 4A)' ' ' 4 ; >: 25 43' 4%' 5' ; 9' 56 ' B> 8 5 : ' 6> 5 23)' &4&,+ ' ' > 5' @29' 4%' 56 ' 7 <' 2 ; ; 256)' Q1
T ' >29 >)' 5 ' 3> : 2AA @' C1 AA 31 ' 23@' B >% 15 43 ' 255 ' : ' J ' P769' 4' 12AA @)' &4&, ' B2>5 ' 5625' 5' 143 5 ' 4%)' &4&, ' CBA2 3 @)' : > ' J T * ' 23@' B2>2B6>2 @)' : > ' 769' 23' 2 564> 59' %4>' B>29 3?' 3' 2' 5 %4>8)' " < ' C ' F ' 14352 3 ' 56 ' 8' 4%' 2AA' 56 3? ' 54' ; ' @ > @)' &4&, ' 769' 56 ' @4C4A4?9' ' 4 8 55 @' 3' 5' " <)' : > ' N
T T ' BB >)' 21>28 35' 4%)' 769' 6> 5 23 ' 2> ' > G > @' 54' 4 ; D >: ' 5)' C4@ ' C ' /N ' 4 ; A ?25 43' 43' 6> 5 23 ' 54' B2>52< ' 3' 5' 8 ; ' C ' / ' @23? >' 4%' 3 ?A 15 3?' 5)' &4&,+ ' 21>28 35)' BB >' 4%' 56 ' "4>@
["4 ' 564 ' 56 3? ' 7 6 16' 56 9' 62@' 7>4 ?65)-' 7 625' B > 43 ' A 2 ; A ' 54' @4' 4)' F *463' : ' >' L 6 ' C5>215 43)' # 3 ' C ' FJ ' 6 ' 8B> @ 31 ' 3' 56 ' 164 1 ' 4%' 2' > @ 31)' # 3 ' C ' / ' 6 ' @ A : >231 ' 23' 314 >2? 8 35' 54 @ ' > ?65 4)' # 3 ' C C ' > %A 15 43 ' 43' 6 ' %2 A5)' : > ' ' > %A 1D 5 43 ' 43' 6 ' 35 6B >23)' : > ' *)' 3 5231 ' 4%' # 4@- ' > ?2>@ %4>' 6 8 ' 35 ' ' J
! ;1' 7 %)' 2' 8 84> 2A' 4% # 4@- ' + @? 8 35)' # 3 ' C C %A' 2' 72>3 ' 3?' 54' B > 43 ' %2 35' : >5)' &4&, ' 23@' 54' 564 ' 764' 2> ' @ D :45 @' 54' 5 8 B4>2A' 56 3?)' " < ' C : ' F ' 3' 7625' 3 ' 2 @' 54' 62 : ' ; 148 ' 2' B AA2>' 4%' 2A5)' # 3 ' C C ' FM
"45)' @' 3' 2' ?44@' 3)' 7625' 5' 8 23)' 23 ' C ' / @ : 43' 4%' 56 ' A23@' ; 9)' > 82>< ' 4%5' 5 ' 8 ; ' CC : ' 00 ' 2 : >9' 231 35' 1 548)' Q @ ' 5 ' B> @ 31)' 8 ;)' CCC : ' /W ' 3D 1 >52 3' 647 ' 143@ 15 @)' &4&, ' 345' 56 ' 4112 43' 4%' 239' ; >4 A)' &4&,+ ' ' , 12B5 : ' @ : @ @' ; 9)' *4 A')' ' @' 54' @ 5 >8 3 ' 7625 62> ' 64 A@' 6 ' 2 : @)' U < ' CC : ' ' P
"45)' B>4 ; 2 ; A9' > 4>5 @' 54' 3' @ 14 : > 3?' 56 ' 4%% 3@ 3?' 5> ; ' *4 6 ' : ' /N ' 3 5231 4%' 56 >' ' 3' 1> B5 >)' 56 '@ 1 D 43' ; 9' 56 8' 3 5 5 5 @' ; 9' # 4@)' 15 ' ' 2' 4A 8 3' 729' 4%' > % >> 3?' 54' 8 =' &4&,+ ': .' '12 5 3?' 4%)' 2' B > 5 5 4 ' 1 548' 4%' 56 ' "2 5))' 56 ' ' W) 647 ' B>215 @)' ; 9' 2823)' &4&, ' @ > 15 @' 3' 5625' 12 ' ; 9' 56 ' B>4 : @ 31 ' 4%' # 4@)' &4&,+ A
"4 : ' 4%' # 4@)' 162>215 > 5 1<' C1 AA 31 ' '56 ' 4 2 1<' A27)' " : ' 0 ' 2114 8 B23 @' ; 9' 56 ' % 2>' 4%' # 4@)' &4&, ' 3 5 @)' 56 ' %4 3D @25 43' 4%' 4 ; @ 31)' ' 56 ' > A 3?' B> 31 BA ' 4%' ; 3 :Z 61 ' 54' 823< 3@)' &4&, ' 23@' 54' 23 82A)' &4&, ' 3' 7625' 5' 143 5 ' 255 ' CC ' W ' 56 ' : 2A ' 23@' 8 B4>5231 ' 4%' 56 ' @ 59)' &4&, ' 769' 59A @' 56 ' ?> 25' 48 823@8 35)' : > ' L ' 31A @ ' 456 >' 3D 5 8 35 ' 5472>@ ' 8)' 35 ' C ' /)F' 4 >1 ' 4%' : >9' 56 3?' ?44@)' 35 ' : ' 0 ' B 1 A 2>' 54' 56 ' * 7 6' 23@' 6> 5 23' @ B 3 25 43)' &4&, ' 769' 7 ' 2> ' > G > @' 54' B: ' 8 ' 7 56' 2AA' 56 ' 6 2>5)' Q1 ' &4&, ' 56 ' 6 2>5)' 56 ' 4 A)' Q ' CBA2 3 @)' &4&, ' 769' 4' 4%5 3' > ' B 25 @' ; 9' 4 ' 54' 56 ' >2 A 5)' 35 ' C ' / ') 56 ' % > 5' 23@' ?> 25' 48 823@8 35)' 769' A 2 ; A ' 54' ; ' 8 3@ > 544@)' ' *463 : ' ' ; 5' CBA2 3 @' ; 9' 5 ' %% 15)' &4&,+ ' 647 ' 5' @ %% > ' %>4 8 ' 56 ' A4 : ' 4%' 3 ; A ' 4 ; + 15)' &4&, ' 647 ' 7 ' 829 ' 1431A @ ' 5625' 7 ' B4 ' 5)' &4&,+ 625' B > 43 ' 829 ' ; ' > ' 5625' 56 9' B4 ' 5' 345)' &4&, ' 162>215 >' 7 6 16' 56 ' 1> B5 > ' ? : ' 4%' 5)' &4&,+ 7625' 56 ' ; 5' 2> ? 8 35' 4%' 5)' C4@ ' CC ' ' 7625' 56 ' 5> ' 5 5' 4%' 5)' *463' C : ' ' 647 ' 5' 829' ; ' CB> @)' ' *463 ' : ' ' 647 ' ' 829 ' ; > 3?' 4 > A: ' 54' 5)' 23@' 7625' 5' %% 15)' ' C ' / / ' 143 G 31 ' 4%' 345' A5 : 25 3?' 5' 3' 56 ' ? 3 >2A 59' * ' 8 3) /' *463' : ' /L ' 23@' 3' 6 8 ; A >' 23@' > ?65 >' 8 3@)' & 5 +' 625' 56 ' 143 G 31 ' 4%' 1 A5 : 25 3?' 5)' &4&, ') ' 23@' % 2>' 4%' # 4@)' +4 35' B> 31 BA ' 4%' 6> 5 23' 4 ; @ 31) 5' 1' /F ' 647 ' > B> 35 @' 3' 1> B5 >)' &4&, ' 7 56' 5> 15' B>4B> 59' 3 5 @' 3' 4 >' " 5 >?9)' &4&,+ 4%' # 4@' 23@' A4 : ' 4%' 4 >' 3 ?6 ; 4 >)' 769' 56 ' 574' ?> 25' 48 D 823@8 35)' 2><' C ' /
T T ' 4%' # 4@' %4>' 823)' 647 ' 823 % 5 @' 3' 56 ' > @ 8 B5 43)' ' *463' : ' ' 3+ > @' ; 9' 56 ' BB4 5 43)' 4%' 56 ' $ @ 8 >' ; 3?' 8 > ' 823)' &4&, ' 36231 @' ; 9' 56 ' 143 @ >25 43' 4%' ' 3@ 3?' ' 43A9' ; ?4%' 3' 43)' &4&, ' 54' @ >4?25 ' %>4 8 ' 56 ' @ ?3 59' 4%' 56 ' $ @ 8 >' ' 54' 3@ >: 2A ' 56 ' A4 : ' 4%' # 4@)' &4&, ' 7625' ; A %' 3 1 2>9' 54' ; ' 35 >52 3 @' 4%' 6> 5)' &4&,+ ' ' : [
T T '4%' 6> 5' 54' ' 2' 8 4@ A' %4>' 4 >' 8 525 43)' *463' C : ')
T 4%' 4 >' 3 ?6 ; 4 >)' > A 3?' B> 31 BA ' 4%' 3' 56 ' 4 2 1<' A27 ' " : ' C C ' /L ' A < ' 54' 56 ' A4 : ' 4%' # 4@' 3' C1 AA 31 ' 255)' ' 769' 6> 5' 8 35 43 @' 56 ' 3' 2@@ 5 43' 54' [' 56 ' ?> 25' 48 D 823@8 35)-' &4&, ' 647 ' A 8 5 @' ; 9' 56 ' * 7 6' @4154>)' " < ' C ' 143% 3 @' 54' 56 >' 473' 325 43' 23@' < 3@> @)' : > ' / ' 5 ' M3 ' P A2>? @' 6> 5 23' 3)' : > ' W ' 769' 12AA @' ; 9' 6> 5' = 2' 3 7' 48 823@8 35)-' *463' C ' N ' 6> 5- ' A4 : ' 54' ' 56 ' 84@ A' 4%' 4 >' A4 : ' 54' 456 >)' &4&, ' 56 ' C1 AA 31 ' 4%' 56 ' @ 59)' &4&,+
T 54' 6 ' 3 ?6 ; 4 >)' 345' 1435 35' 7 56' 3 ?25 :)' $4 8 ' C ' ' 7625' 74 A@' ; ' 56 ' 143 G 31 ' 4%' 5' %' B>215 @)' &4&, ' %% 15 ' 76 16' 5' 74 A@' B>4@ 1 ' 3' 56 ' @ %% > 35' > A25 43 ' 4%' A %)' &4&,+ 23@' B43' 823< 3@' 25' A2>?)' &4&, ' 6434 >2 ; A ' 54' 56 ' > A ? 43' 76 16' 5 21A ' 5)' &4&,+ Q + %4>' 4 >' ; > 56> 3)' 76 3' 5' B>41 @ ' %>4 8 ' 56 ' B>4B >' B> 31 D BA)' / *463' 3' F
T ' 143+ ?2A)' 845 : ' 54)' # 3 ' ' F /)' FN 8 5 2A' 2 8 43?' 8 3)' 4 ; A ?25 43' 54)' # 3 =E' FW ' ' 62> 59
T T ' 4%' 56 ' 74>A@)' 7625' 8 235' ; 9' 5)' ' *463' ' / 0 ' % A 1 59' 4%' 2' % 5 > ' 525 ' 3143 5 35' 7 56' 5)' &4&,+

2 K;1' I J' I - ;' 9M2 ,29.C' 4. I I ;ME

"4> ' 3' @ @' 23@' 3' 5> 56)-' 7625' 5' ?3 %)' /' *463' ' /L
Q +49 i' 7625' 5A 9' ?3 %9' 3' 56 'A 5' 4 %' 6> 5 23' ?>21 ' #2A
' 99 ' U
' % 2 5)' 23' 2>A9' 1 548' 3' 56 ' 6 >16)' ' 4>' C)' ' @ 4>D
@ >A9' 143@ 15' 4 %' 56 ' 4> 356 23 ' 3' 56 8)' &4&,+
"4: @)' 3' 7625' 3 '#4@' A4: @' *214;)' 4>2 ' C ' W)' /
"4: A9)' 7625' 56 3? ' 2> ' 148 B> 6 3@ @' 3@ >' 56 ' 162>215 >' 4 %' 5)'
6 A ' : ' ' 2' :2A 2;A ' B2>5' 4 %' 6> 5 23' B>215 1)' &4&,+
"4: 3?' 23@' 625 3?)' 7625' 56 9' 4%5 3' ?3 %9' 3' ;> 7)' $48 ' C
/ ' @' 3' 56 ' 28 ' 8233 >' ; 9' 4 >' 2: 4 >)' &4&,+
T ' 43 ' 23456 >)' 647' 5' 8 29' ; ' 12AA @' 23' 4A@' 148 823@ 8 35)
' *463' ' W' 23@' 647' 2' 3 7' 43)' : >' W)' ' > 82>< ' 43' 56 '
3 ?8 25 12A' 8233 >' 3' 7 6 16' 56 ' B> 1 B5' ' 143: 9 @)' &4&,+
["47 >' B2>5 ' 4 %' 56 ' 2>56 i' 7625' 8 235' ; 9' 6> 5- ' @ 1 3@ 3?'
56 56 >)' B6 ' : '
"492A59' C 8BA % @' 3' 4>@ 12)' 56 ' 'FF' 3 B2>2;A ' %>48 '
5> '> A ? 43)' &4&,+
= 5@ % ' 764' 56 9' 7 >)' ' 6>43 ' C '
= 5 < '56 ' 84>3 3?' 52>' ' C : ' /F' 7625' 56 ' CB> 43' A < D
7 ' 2AA @ ' 54)' &4&,+
! + - 6' 764' 35 3@ @)' * >' CA: ' ' '
! + - 6' 2' BA >2A' %4>8)' # 3 ' C ' A ' 7625' 325 43 ' 5' @ 345)' &4&,+
= 5 ' 1 59' 4 %' 42;)' ; 9' 7625' @ 5 3? 6 @)' * >' CA: ' 0
! + 6' 5' B2>5 1 A2>' 4 %' 6 ' 6 54>9)' 35>4@' 54' 5' " < - ' #4 B A)'
@25 ' 23@' 162>215 >' 4 %' 6 ' #4 B A)' &4&,' 8 239' 2114 35 ' 4 %' *
62@' ; 3' B ;A 6 @' ; %4> ' 6 ' 7>45)' "6< ' ' ' C5 3@ ' 2' G 4D
525 43' %>4 8 ' 2 26' %4>' 56 ' ' 4 %' 56 ' # 35 A)' " < ' ' 0' 6 '
2114 35' 4 %' 56 ' 82A %2154> ' 43' 56 ' 1>4 ' > 1431 A @' 7 56' 5625' 4 %'
5' 2556 7' 23@' 5' 2><)' " < ' CC ' J' 6 ' 2114 35' 4 %' 5' '
56 ' 84 5' B2>5 1 A2>)' &4&,' 2 564>' 4 %' 56 ' 15 ' 4 %' 56 ' B4 5A)'
35>4@ ' 54' 15)' 6 ' ? 3 >2A' 4;+ 15 ' 3' 7 > 5 3?' 56 ' ;44<)' &4&,+
6 ' 211 >219' 2 ' 23' 6 54> 23' 143 % > 8 @' ; 9' *4 B6)' 15 ' C ')'
21148 B23 ' 5' 2 A' 3' B2>5' 4 %' 6 ' 5>2: A ' 15 ' C: ' ' 72 '
43' ;42 -@' 56 ' 6 B' 7 56' 5' 2 A)' 15 ' CC: ' ' BB4 @' 54' ; '
2AA @ @' 54)' F' 4>' : ' /L' 56 ' C1 AA 31 ' 4 %' 6 ' 162>215 >)' 46'
: ' /N' ' #4 B A ' 4 %' 5' 2556 7' 23@' 5 ' " < '
" < 72>8 3 ' 3' > A ? 43)' @ 1> ; @' 23@' 143@ 8 3 @ ' 255 ' C
) ' 7 AA' 645' B>41 > ' C 8 B5 43' %>4 8 ' B 3 6 8 35' 255 ' CC>
F' 2' 74> ' @ B4 5 43' 5623' 2; 4A 5 ' 14A@3 ' $: ' ' /0 '
" 325 1<)' 7625' 56 ' 74>@' B>4;2;A9' 8 23 ' 255 ' C: ' /0 '
" 5)' 56 ' 12 ' 4 %' 3 ' *28 ' ' /0 ' > %A 15 43 ' 43' 5)' &4&,+
Q 4 %' 56 ' 9 i' 7625' 12AA @' 4)' 23@' 769)' ' *463' '
[4 %' 56 ' %A 6)-' 7625' 8 235' ; 9' 5)' / *463' ' %E
" 5 ' 4 %' 56 ' %A 6)' 769' B2>5 1 A2>A9' 54' ; ' ? 2>@ @' 2?2 3 5' ; 9'
6> 5 23)' ' 6 ' :'
= P % ' 769' 5' 2 A' 143 % 58 ' 6 ' B> 216 3?' 54' 56 8 ' ; 9' 2'
?32A' 8 >21A ' 15 ' C : '
= P ' 5 ' 5 25 43 ' 15 ' +1' F
! - 6' > %A 15 43 ' 42' 6 >' 162>215 >' 15 ' C: ' /N' 7625' 6 >' 6 D
54>9' 6 7)' &4&,+
"9 3?)' 56 ' 3' 4 %)' / ! 3? ' C ' /L' 5 ' %252A' 143 G 31)' &4&,+
= P% 5 % ' 6 ' @ : 43' 4 %' 21 @43 23' 8 B >)' 23 ' : ' L

I @ % ' % % 5' ; 44<' 4 %)' 345' 1 5 @' ; 9' 4 >' 2: 4 >' 4>' ' B4D
5A)' 143 @ > @' B41>9B62A)' 14B @' ; 9' *4 B6)' 35>4@ ' 54'
' 21 '
T '' 143@' ; 44<' 4 %)' 2' 148 B A25 43)' 2 564>' 345' 3 B > @=' 4 %' 34'
2 564> 59' 3' B4 35' 4 %' @415> 3)' 35>4@ ' 54' ' 21
% 0 +16' 1 %& *' B / *1<*' 6*2'5*6 !' A' %< ' '' ' C
9 M5 % ' ; 9' @ % 25 3?' 8 843 5 ' % A% AA @' 2' B>4B6 19)' * >
CA C ' ' 6 ' > A ? 4 ' 143@ 15)' ' 21 ' ' 0 .' C ' /)' /L '
I ' 16 >16 ' 4 %)' 48 ' 4 %' 56 8' B 1 % @)' F' 4>' : ' /
' 769' 5' 2 @' 8 35 43 ' 56 >' B4: >59)' : >' F ' 12 ' 4 %' 56 >'
B4: >59)' &4&,+
I ' .'106" &'#"2*)"(6!' 23 ' '' ' ?9
I D . ' 12: ' 4 %)' B>4;2;A9' 23' 2>16 @' :2 A5' 4>' 1>9B5)' # 3
CC ' J' 769' B2>5 1 A2>A9' @ 1> ; @' ; 9' *214;)' # 3 ' CA C '
[' 2@ ' 2' A 55A ' A47 >' 5623' 56 ' 23? A ' %4>' 56 ' %% > 3?' 4 %' @ 256)-'
7625' 56 ' A255 >' 74>@ ' ?3 %9)' ; ' '
[%> i' 7625' 56 ' 4> ? 32A' 74>@' ?3 %)' $48 ' : ' /L
[' 4 %' 2' 748 23)-' 769' 6> 5' 72 ' 2 @' 54' ; ' 4 ' #2A)' : ' N
[3@ >' 56 ' A27 i' 769' 6> 5' 2 @' 54' ; ' 4 ' #2A ' : ' N

% - 6' B / *2*' +')4%)*6!' 3*2 ' R(5''' ' 9
2?2U 3 ' 4 %' 8 A 52>9' 54>)' 56 ' 2>A 5' 8 35 43' 4 %' 56 8)'
F' 6>43 ' CC: ' /N
I 5 ' [' 56 ' 142 5)' 4 % i' 7 6 > ' 255 ' C: ' HI+
I ' I P ' 7 A 7' 4' 12AA @ ' 255)' CC: ' >D+
% 4 6') / *'2' *R)2%<)' '1 ' *5 ' R5''' ' I
' 2 5 >3)' 2114 35' 4 %' 255 ' ' / ' 56 >' 14 35>9)' &4&,' ?>4 3@
4 %' 56 >' CB 1525 43' 4 %' 56 ' ; >56' 4 %' 48 ' ?> 25' ! 3?)' : >' F '
' ' 3
I % ' 2' > 23' 15)' 2AA @ @' 54 ' ' CA>' W.' U < ' :)
']
2? 1 23 ' 4 %' ?9B5)' 7625' < AA' 56 9' B>4% @)' # 3 ' C ' L ' 7625'
8 235' ; 9' 56 >' >4@ ' ; 148 3?' >B 35)' C4@ ' : ' /F' > 2 43 '
%4>' #4@' % > 3?' 56 8 ' 54' 215' 2 ' 56 9' @ @)' &4&,' 56 >' 3% > 4> 59'
54' 4 ' 823 % 5 @)' C4@ ' : ' W ' 3*6' 56 9' 8 525 @' 6 ' 56> '
% > 5' 8 >21A)' : >' /L' 14 A@' 345' 8 525 ' 56 ' 456 >)' &4&,' 56 >'
32;A 59' 54' > A : ' 56 8 A: ' 4>' 56 >' 14 35>9)' C4@ ' C ' / /
' 62A@ 23)' 764' 56 9' 7 >)' 23 ' ' F ' 4; >:25 43 ' 43)' 23
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2? 1<)' @ %% > 35' < 3@ ' 4 %)' %4>; @@ 3' ; 9' 4)' 5 ' C: ' /)'
> 2 43 ' %4>' 56 ' B>46 ; 5 43)' &4&,' AA 5>25 @' ; 9' 8 4@ >3' >2D
; 23' 8 233 >)' &4&,+
2? 5>25)' 56 >' @ 59' @ 1> ; @)' ' CCC ' L ' 64 A@' B>4 8 45 '
#4@- ' 74> 6 B)' ' 1CCC ' /W' 2' % A' C2 8 BA ' 2%%4>@ @' 56 8'
; 9' 6 8 26)' 6 ' C ' JZǂ ' #4: >34 >)' : A' 564> 59)
2?3 % 125)' 98 3' 4 %' 56 ' ;A @' , >? 3)' 769' 4' 12AA @)' " < '
' > 2 43' 23@' % 53 ' 4 %' 5 ' ' 3' 56 ' 6 >16)' &4&,+
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I D (%% @ @ ' 2 6 >' 769' 12AA @)' * >' CC '
262A256)' 7625' 5' B>4;2;A9' @ 345)' ' A ' 55A
I ' 8 23 3?' 4 %' 56 ' 328)' # 3 ' CCC ' F
I ' 6 ' 143G 5 ' 4: >' 56 ' 6> 5 23' B47 > ' *% *(, ' %
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2+ 59' 4 %' #4@)' 647' @ 1> ; @)' C4@ ' CCC ' F ' @4 ' 345' 143D
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[' 2< ' 35 >1 43' 2?2 3 5)-' 7625' 5' ?3 %)' $48 ' C ' F
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I % ' 35 >B> 5 @Ǝ V B6 ' ' / /
I ' A2 5' 4 %' 56 ' >4B6 5 ' ; %4> ' 56 ' #4 B A)' 4 %' 5> ; ' 4 %' V '
; A 3)' 4 %' 2B62)' 148 BA 5 @' 56 ' 12343' N ' 9 2> ' ; %4> ' 6> 5)'
1 5 @' 2 ' 2' >4B6 5' 3' 7' 528 35)' 35>4@ ' 54' 2
T ' 12AA @' 23? A' 4 %' 56 ' "4>@)' F' @' ' N
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B43' 56 8)' " < ' CC ' I+ 56 ' %2 56' 23@' > B 35231 ' 4 %' 43 ' 4 %'
56 8)' : >' NF ' 6 ' 345 43' 4 %' 6> 5- ' < 3?@48)' ; @' 6> 5- '
B>48 ' 54' 6 8' 2' 843 8 35' 4 %' %./' 0,' * ' 314 >2? 8 35'
54' B 3 5 35' 33 >)' : >' N ' 6 ' 12 ' @ %% > 35' %>4 8 ' 5625' 4 %' 456 >'
A25 ' B 3 5 35)' &4&,+
2A :4A 35' B2 43 ' 4 %' 2AA' < 3@)' 647' ? 2>@ @' 2?2 3 5' ; 9' 5' 2 A)'
B6 ' : ' /
2A ' 43A9' 4 ; A ? @' 54' ; ' B> 35' 25' 56 ' 56> ' ?> 25' % 2 5)' 5 '
C: ' ' 23@' 769)' &4&,+
2A 1)' 647' 54' ; ' 3@ > 544@)' / 4>' C : ' F ' 7625' 5' ' 2' > '
82><' 4 %+' / *463' ' /N
2AA47)' 7625' 6 >;' 35 3@ @' ; 9' *4 ;' CCC ' N
28 843)' @ > :25 43' 23@' 8 23 3?' 4 %' 56 ' 74>@ ' 255 ' : ' FN ' 769'
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I ' BA2 3' 4 %)' 769' 4' 12AA @)' # 3 ' C ' /L
23)' 6 ' @ ?3 59' 35 8 25 @' 25' 6 ' 1> 25 43)' # 3 ' '# 6 76 > 3'
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@ 3)' : >' L ' 35 31 ' B43' 6 8' 25' 56 ' %2AA)' CBA2 3 @)' # 3
')' /L
T' %4>8 @' 54' ; ' 2' > A ? 4 ' ; 3?' 15 ' C: "' FW

2 K;1' IJ' I-;' 9;2 ,29.;' .II;ME

' 4>2A' : >5)' ¸ 3 ' 4%' 5 ' % 53 ' 3% > 4 >' 54' 56 '> A ? 4 ' B> 3@ ' BA)' $4 8 ' / ' P ' 4>2A 5)' 56 ' 6> 5 23)' 647' @ 5 3? 6 @' %>4 8 ' 56 ' 2?23)' ?' 5 ' = ' M' ') P 4>2A 59)' 3' 7 625' 2 @' ; 9' 2' 7 ' 6 256 3' 54' 143 5)' F' 5 ' ' D++ 4%' 56 ' # 4 B A)' 5 ' 54 ' 23@' ; 5231 ' 56 ' A4 : ' 4%' # 4@' 23@ 8 23 ' 255 ' CC ' N ' ; 2 59' 4%)' 6 A ' : ' L ' B2>=' L ' % > 8 ' ; 2 ' 43' 7 16' 5' > 5)' /' *463' : ' F / ' 56 ' 3@' 4%' 56 ' # 4 B A' @41D 5> 3)' &4&, + I @ ' 6 ' @ 1 35)' 56 ' ' M ' 6 ' C5> 8 ' 23C 59' %4>' 56 >)' : >' / / ' 23' C2 8 BA ' 4%' 2' %2 56% A' ; + 15)' : >' FF ' 143D @ >25 43 ' 43' 56 ' > 2 43' 4%' 6 ' > % 3?' 54' @4' > : > 31 ' 54' 2 323)' 56 ' ' F ' > %A 15 43' 43' 6 ' 14 >2? ' 23@' B25> 45 8)' 5A ' : ' / ' 525 8 35' 4%' 6 ' ; 62: 4 >' %>4 8 ' 56 ' 2>? 8)' &4&, +' 143 52319' 4%' 6 ' > A ? 4 ' %2 56)' : >' /N ' 6434 >' B2 @' 54' 6 8 ' 2 5>25 @' ; 9' 231 35' 23@' 8 4@ 8 ' 1 548)' 56 ' : ' J ' > %A 1D 5 43 ' 43' 56 ' 11 ' 4%' 6 ' C >5 43)' 56 ' C ' I ' >' % ' 6 ' 29 3?)' >4 : ' C C ' /W X I ' 42<' 4%)' 411 >> 31 ' 7 6 16)' 544<' BA21 ' 3@ >' 5)' # 3 C > ' D+ b' P # I % (' 7 6 > ' 5 25)' 1 ' ' /N ' I ' 8 4 35)' 8 23 3?' 4%' 56 ' 32 8)' # 3 ' CC ' F ' 456 >' 32 8 ' 4%' 5)' 23@' 56 >' > 2 43)' &4&, ' 56 ' 5 ' 4%' GA4 8 43- ' 5 5%ABA) F' 6>43 ' ' / ' 7 6 56 >' > % >> @' 54)' U < ' C "' F ' 12AA @' 8 4 3D 52 3' 4%' 56 ' 64)' 1 ' ' /F 4>3 3?)' 5 8 ' 4%' 56 ' 2@ 8 3 5>25 43' 4%' + 5 1)' 2AA @ @' 54)' U < ' : ' W ' 1 54 8 ' B>4 : > ; 2AA9' 345 1 @)' 11A ' C ' (D+' 8 52B64> 12A' ?3 % 125 43 ' 4%' 56 ' B6>2)' ' CA C ' /N' . ' 1CA ' 2' ' C : ' / /' . ' *4 A' ' F ') ' 23@' 3 ?65)' @' 8 52B64> 12AA9)' # 3 ' CA C ' FW ' T >' 7 2516)' 8 23 3?' 4%' 56 ' B6>2)' C4@ ' C : ' FN =T T' 52>)' 8 23 3?' 4%' 56 ' B6>2 '[' 7 AA' ? : ' 56 ' 8 4>3 3?' 52>)' $: ' ' FL 4>>4 7)' 2 5 >3' 8 B4>5' 4%' 56 ' 7 4>@ ' 255' : ' N 4>5 ,>)' 35 8 B > @)' B>4B> 59' 4%' CB> 43' CBA2 3 @)' U < ' C ++' 4>5 % 125 43' 23@' > ? @' 2 ; 5 3 31 ' @ 14 35 3231 @' ; 9' 56 ' C2 8 D BA ' 4%' 6> 5)' *463' ' F 4>5 %9' 94 >' 8 8 ; >)' 7625' 5' 8 23)' 4A ' 0 ' 2' % ? >25 : ' > D B> 3525 43)' &4&, + I % ' 7 6 > ' 5 25 @)' 5 ' C ' D+ I % % ' 6 ' B2> 352?)23@' %2 8 A9)' C@@ ' ' / ' ; > : 59' 23@' 8 D BA 1 59' 4%' 56 ' 2114 35 ' 4%' 6 ' 2>A9' A %)' : >' F ' B> >: @' ; 9' >4 : @ >51)' : >' L ' 647' @ 125 @)' : >' / ' 62@' %2 56' 3' 56 ' B>4 8 @' $ @ 8 >)' &4&, ' 8 23 3?' 4%' 6 ' 35 3)' &4&, ' 7 69' 2 @' 54' ; ' '[' 8 ?65E' 3' 74>@ ' 23@' @ @)-' 15 ' : ' FF ' 34 ; A D 3 ' 4%' 6 ' 143@ 15' 3' @ B 3?' B4B A2>' 4B 3 43)' C4@ ' ' / /' > 8 2><' * 0' 6 ' < AA 3?' 5A ' ?9B5 23)' : >' /F ' 345' 23' C2 8 BA ' 54' ' 3' 5625' B2>5 1 A2>' 8 ; ' CC : ' / ' 7 69' 6 ' %A @' %>4 8 ' 56 ' %21 ' * 1' 62>246)' C4@ ' ' /0 ' > %A 15 43 ' 43' 6 ' 6 AB 3?' 56 ' @2 ?65 > ' 4%' 3%* ' ' %+' +' 7 69' 56 9' 544<' 662' %4>' 23' ?9BD 5 23)' : >' ' > 8 2>< ' 43' 6 ' 8 2>> 2? ' 7 56' V BB4>26)' : >' F / ' > %A 15 43 ' 43' 6 ' 12AA 3?' 6 ' 43' # > 643) ' : >' FF ' 5>2 3 @' 3' 56 ' 1644A' 4%' 2@ : > 9)' &4&, ' % : 647' 411 B @' 3' @ 23)' C4@ ' ' / ' 43' 7625' ?>4 3@' 35' ; 9' # 4@' 54' 62>246)' : >' / ' 7 69' 6 ' > 1 : @' 2' 54< 3' 4%' 2 D >231 ' %>4 8 ' # 4@)' : >' /F ' 7 69' 3 ' @ > @' 54' <347' 56 ' 32 8 ' 4%' # 4@)' : >' / ' 7 69' 6 ' 2 < @' 2' ?3' 4%' # 4@)' C4@ ' : ' / ' 7 69' % 3 6 @' 7 56' 8 >21 A4 ' B4 7 >)' : >' L ' 6 ' A4G 31 ' B >325 >2A)' : >' /F ' 6)' ; 21< 72>@ 3 ' 2114 35 @' %4>)' : >' / ' 647' %2>' # 4@' 72 ' @ BA 2 @' 7 56' 6 8)' : >' /N ' 59A 1_' 2 8 43?' 56 ' ?9B5 23 ' 56 ' 4>21A ' 4%' # 4@)' : >)' ' 7 69' 6 ' 1431 2A=' 6 ' 148 8 43' %>4 8 ' * 56>4)' : >' /L ' 7 69' 56 ' " 4>@' 4 ?65' 54' < AA' 6 8)' : >' FN ' ' > 8 2>< ' 43' 56 ' B >325 >2A' 2 5231 ' 2% ' %4>@ @' 6 8)' : >)' FL ' 3' 7625' A ?65' 21<347 A @? @' ; 9' 62>246)' C4@ '):)' / ' 2BB2> 35' > 2 43' 4%' 6 ' 2BBA 125 43)' &4&, ' 7 69' 6 ' 2BBA @' %4>' 34' 84>)' : >' ' ; 8 : 3 ' 4%' 6 ' % > 5' 2BBA D 125 43)' &4&, ' 62@' 4112 432A' 148 8 3 125 43' 7 56' 56 ' " 4>@)' : > FF ' %% 15 ' 4%' >2 A 5)-' 148 BA2 35 ' 43' 6 ' 8 3@)' &4&, ' > %A 15 43 ' 56 > 43)' &4&, ' 3' 7625' 3 ' 2 @' 54' ; ' 82@ ' 2' # 4@' 54' 62>246)' C4@ ' : ' / ' 7 69' 6 ' 2? ' 345 1 @)' : >' +' 7 69' 56 ' 1435 5' ; ' 57 3' 6 8' 23@' 56 ' 82? 1 23 ' B >8 55 @)' : >' /F ' 7 69' @ > 15 @' 54' 8 5' 62>246' ; 9' 56 '> : >)' 9 >' /0.' 6 ?6A9' 5 8 @' ; 9' 56 ' ?9B5 23)' C4@)' C)' H' 57 4' @ %% > 8 5' B > 4@ ' 3' ; ' 6 54>9 1435>2 5 @)' C4@ ' C A ' L / ' 6 ' 2@ 8 >2 ; A ' B > 5)' C4@ ' C : ' / ' > 8 2>< ' 43' 6 ' 143@ 15' 25' 56 ' $ @' 2)' C4@)' C : ' /)=' f) I % % ' > %A 15 43 ' *0' 6 ' 1>9 3?' G54' 56 ' " 4>@)' C4@ ' C : ' F0 ' 647' # 4@' B>4 : @' 6 8)' @ ' 'B>4B> 59' 4%' 6 \' CB4 5 A25 43 ' 25' $ ' B6 @ 8)' C4@ ' C : ' 7 69' 6 ' 35' *4 6 2' 2?2 3 5' 56 ' > 8 A ' < 5)' : >') 7 69' ; ' > A@' B' ; ' 623@' @ > 3?' 56 ' ; 255A)' : >' ' 6 ' A4 : ' %4>' 6 ' B 4BA ' 23@' 6 ' @ 35 > 5 @3 ' C 53B ! ' ; % @)' C4@ ' CCC A ' 43' 7625' ?>4 3@ ' 6 ' ; 16 ' # 4@' 54' B2>@43' 56 ' >2 A 5)' : >' //' > 8 2>< ' 43' 6 ' ; > 2< 3?' 56 ' 52D ; A)' ' ,%+' ' 6 ' 34 ; A ' > 4A 543)' : >' F ' 6 ' ?> 25' V 2A)' %4>' 56 ' ?A4>9' 4%' # 4@)' : >' F ' 7625' 8 235' ; 9' 56 ' < 3' 4%' 6 ' % 1 ' 6 3 3?)' C4@ ' CCC : ' FJ ' 647' > B> 35 @' ; 9' B2 35 >)' @ @' > %A 15 43' 43' 6 ' 2BB 2>231)' 6 3 3?' 4%' 6 '%21)' 647' 2AD A @ @' 54)' F' 4>' : ' M ' 7625' 56 ' : 2 A' 4 : >' 6 ' %21 ' 72 ' 2' ?3' 4 =' F' 4>' 6 ' / F ' B 1 A 2>' 6434 > ' : 4 16 2% @' 54' 6 8)' C4@ ' CCC : ' ' 56 ' " 4>@' 12AA @' 354)' 7 69' %> G 35A9' > B 25 @' " : ' / ' 2>? 8 35' 3' %2 : 4 >' 4%' 6 ' 7 @4 8 ' 23@' : >5)' *= 8 ; : ' / ' @ %% 1 A59' B>4B4 @' ; 9' 6 8 ' 2 ; 4 5' 56 '% @ 3?' B%' 56 ' D >2 A 5 ' CBA2 3 @' 8 ; ' C ' F / ' %3 >2 A4' 7 >4 ?65' ; 9' 6 8 ' B2D >2AA A' 7 56' 43 ' 4%' 4 : " 4>@-)' ; @)' C2 8 BA ' 4%' 6 ' @ 35 > 5D @3)' : >' ' 7 69' 525 @' 54' ; ' : >9' 8 <)' 8 ; ' C ' ' 6 ' : 3@ 125 43' 4%' 6 8 A%' B2>2AA A @)' ; @)' 54' ; ' A44< @' 43= ' 56 ' 5 5 8 439' 4%' 56 ' 4A9' # 64 5' 1431 >3 3?' 6 8)' ; @)' > %A 1) 5 43 ' 43' 56 ' 3 43' 4%' 8 A@3 ' 23@' %4>5 5 @ ' 3' ; ' 162>215 >)' ; @)' 7 69' # 4@' 35 >B4 @' 3' 6 ' ; 62AA=' : >' N ' 6 ' %4 ? : 6 ?' @ B4 5 43)' : >' / ' B255 >3' %4>' ' 54' %4AA47)' ; @)' 6 ' @ 3 31 2D 5 43' 43' 56 ' > ; AA 4 ' >2 A 5 ' @ 1525 @' 23@' BB4>5 @' ; 9' D : 3 ' 2 564> 59' 8 ; ' C : ' 0 ' @4 ' 345' 2 8 ' 56 ' B> 5A9' 4%% 1 ' 8 ;)' C :)' NM ' 7 6 > 3' 143 5 @' 6 ' 3' 25' > 626)' 52 ; ' $$' /F ' C 8 BA2>9' A 43' 2%%4>@ @' ; 9' ; ' B 3 6 8 35)' &4&, ' 647' : > A9' 6 ' % A5' 56 ' @ B> : 25 43)' : >' / ' 6 ' 5 3@ >D 3 ' %4>' 56 ' 7 A%2>' 4%' >2 A' 345' A21< 3 @' 25' 56 ' 2BB>4216' 4%' @ 256 ' 8 ;)' CC : ' ' 7 6 = 3' 6 ' B > 4> 59' 54' * 4 6 2' 143D 5=)' : >' F / ' 345' 28 ; 5 4 ' 54' 2@ : 231 ' 6 ' 47 3' %2 8 A9)' 9 >' FF ' 6 ' 6 8 A 59' 23@' A%@ 3 2A' 56 > 3)' &4&, ' 6 ' 11 4>' 62@' 34' 5 8 B525 43' 3@ A9' 54' C2A5' 6 ' 1> @ 5)' ,Q!,+ 7 69' 148 8 23@ @' 54' > 8 3@' 56 ' >2 A 5 ' 4%' 56 ' 4>@ 3231 ' 56 9' 7 > ' 54' 4 ; >: ' 3' 23223)' 8 ;)' CC : ' F ' > 8 2>< ' 43' 6 ' 4>@ >' 7 56' > B 15' 54' 56 ' ; 49 23@' 748 3' 4%' 56 ' @ 23 5)' 8 ;)' CCC ' ' 6 ' 7 @4 8 ' 23@' ; 3 : 4A 31 ' 3' > B 25 3?' 23@' CBA2 3 3?= 56 ' A27)' 5' ' 0 ' > %A 15 43 ' 43' 56 ' 325 >2A' ; 2 59' 23@' 2%% 1D 5 43' 4%' ; ' 2@@> ' 54' 56 ' B 4BA))' : >' / / ' 43' 2' > 8 2><2 ; A ' ' 48 D 43' < ' 5625' 2@@>)' : >' FM ' 43' 56 ' 2>? 8 35)' @+ ; 9+6 8 ' 54' 314 >2? ' 56 ' >2 A 5)' : >' ' 7 69' 6 ' 8 35 43 ' 6 ' 473' > + 15 43' 23@' 56 ' ; 5 5 5 43' 4%' * 4 6 2)' : >)' L ' 7 69' 6 ' 2AD A @ ' 54' 48 ' B2>5 1 A2>' 3' 56 ' 6 54> ' 4%' 56 ' 42 ; 5)' Q1)' 5 ' / F ' > 2 43 ' 4%' 56 ' 14 > ' 7 6 16' 6 ' 544<' +7% 5 ;' 643)' : >' B>4 ; 2 ; A ' > 2 43 ' 4%' 6 ' 23C 59' 54' ?4' G : >' *4>@23)' 5 ' F0 ' > 2 43 ' 4%)' 6 ' 2>3 5' 2BB 2A' 54' 56 ' >2 A 5)' 5 ' : ' / ' 7 69' 6 ' > B 25 @A9' 8 35 43 ' # 4@- ' 23? >' 54 7 2>@ ' ' 6 8)' : >' F / ' 6 ' 43@ 15' 54 7 2>@ ' 56 ' 23223 5 ' >> B> 6 3 ' ; A)' 5 ' : ' FN ' 325 >2A' 1 >1 8 5231 ' 3' 6 ' 2@@> ' 54' 56 ' >2 A 5)' 5 ' : <' <+' B>44% ' 4%' 56 ' : B ' B4 7 >)' ; 9' 7 6 16' 6 ' 72 ' B64A@ 3)' 5 ' C ' W ' B>4B> 59' 4%' 6 ' 35>4@ 1 3?' # 4@- ' 8 321 ' 54' @ 5>49' 56 ' * 7 +7 >' A=)' 8 564@ ' 7 6 16' 6 ' @' 54' 3?2? ' 56 ' B 4BA ' 54' 4 ; 9' %A ' A27)' 5 ' CC :)' /)' 7 69' 34' A43? >' 2 ; + ' 54' A 2@' >2 A.' 5)' CCC ' F)' %2 : 4 > @' ; 9' # 4@' 3' ; 3?' %4> 72>3 @' 4%' 6 ' 3@)' 5 ' CCC)' 0 ' 6 ' @ 256' > A' ?2>@ @2 2162 5 8 35)' : >' 0 "' > %A 15 4B ' 43' 5)' 2114 35' 4%' 6 ' @ 256' 23@' ; > 2A)' ; 9' 764 3' B>4 ; 2 ; A9' 7> 55 3)' 5 ' CC :) 0' > %A 15 43 ' B43' 6 ' ; 3?' ; > @' ; 9' # 4@)' : >' M ' ; > %' < 516' 4%' 6 ' 162>215 >)' 9 >' /)' C1 AA 31 ' 4%' 6 =A27)' &4&, ' 525 ' 4%' 6 ' %21 A5 ' 7 6 3' 6 ' @ @)' &4&, ' B>4 ; 2 ; A9' ; > @' ; 9' 56 ' 8 D 3 5>9' 4%' 23? A)' &4&, ' 769' 56 ' B45' 72 ' 1431 2A @)' &4&, ' 34' 6 D 823' 7 53 ' 4%' 6 ' @ 1 2)' &4&, ' B> 8 3 21 ' 4%' 6 ' 162>215 >' @ 1> ; @' ; 9' 28 A' 4>' U>2)' &4&, ' 6)' B25> 45 1<' @ 35 > 5 @D 3)' &4&, ' *' 6>43 ' CC ' /N ' 4 ; >: 25 43 ' 43' 6 ' %2 8 A9)' 5 ' CCC : ' /) 6 ' B4 5 > 59)' 56 >' 143@ 5 43 ' 8 ; ' ' /' 7 6 > ' > 1<43 @ &4&, ' 56 ' 43A9' 3 5231 ' 4%' 23' 6434 >' 143% >> @' 43' 43 ' 4%' 6 ' @ 1 3@235)' /' 6>43 ' CC : ' FN I % % ' ; 44< ' 4%)' 647' B> >: @' %>4 8 ' 2A5 >25 43)' 5 ' : ' F ' 3D 5231 ' 4%' 5' 3' 56 ' 282> 523)' &4&, ' 769' 56 ' B>46 ; 5 43' 2?2 3 5' 2A5 > 3?' 56 8' ? : 3' 25' 56 ' ; ? 33 3?' 4%' 6 ' C64>525 43' 54

" < D' . " ' □ =

4 ; = 31)' 5' : ' ⁄ C1 AA 31 '4%' '2114 35'4%'56 '1> 25 43)' # 3 ' *' /)' 6 ' 8 BA 1 59'2' B>44%'4%'6 ' 3 B >25 43)' # 3 ': ' /0' 2> 4 'B>44% '4%' 6 ' : >21 59'23@'% @ A 59'2 '23' 6 54> 23)' # 3 ' 'AC ' F / .' C4@ ' : ' F .' CCC ' / .' 8 ; ' : ' 0'⁄' MG' <'2 5 CCC ' F' 3 5231 '4%' 6 ' 8 BA 1 59'23@'% @ A 59'2 ' 23' 6 54> 23 ' 8 ; ' ' H⁄ 3 5231 '4%' 6 ' 8 B2>5 2A 59 ' 35 ' CCC ' F ' 3' C:625'B > 43' 6 ' B 2< '4%'6 8 A%' 3'56 ' 3525 16)' 5 ': '0' 3 5231 '4%'6 ' B 2< 3?' 2114>@ 3?'54'56 'A23? 2? '4%'56 '5 8)' 5 ' 'FN' 769'6 '? : '43A9'56 ' % > 5' 23@'A2 5'9 2> '4%'56 ' +4 8 9 3? '4%'56 ' >2 A 5 =' 8 ; ' C ' / ' 6 ' 6 54> 12A' > D 14>@ ' BB4>5 @' ; 9' ; 44<' M%' *4 ;)' *4 ; ' CA ' /W' 1>1 8 5231 ' 3' '6 ' 6 54>9' 2AA @ @' 54' 3' C4@ ' 3A2>? @' B43)' ; ' C ' F/ ' I % % ' % > 5' 148 B4 >' 4%' 21> @' 6983)' %65>4@ ' 54' ' 6 ' 43?' 25' 56 ' C4@ '2'5623< ? : 3?)' C4@ 'C: ' / ' 2'B>4B6 19)' &4&, ' 5 '23D 5 G 59)' &4&, ' 5 ' C1 AA 31)' &4&, ' 6 ' 43?' ; %4> ' 6 ' @ 256' 769' 7> 55 3)' 5 ' CCC ' ' 5 AA' > 6 2> @' ; 9' 56 ' >2 A 5)' &4&,⁄ P 5> 15 > ' 23@'54B 1< ' 4%' 5)' 5 ' CCC ' / ' 5 ' 3? A2>' C1 AD A 31 ' 2 ' 2' 148 B4 5 43)' &4&, ' 8 8 2>9' 4%' 56 ' : >2A' B2>5 ' 4%' 5)' : > A)' D' / 0) / J)' FM) \D' NY ' C5 3 : ' >23? '4%' : 43' 7 6 16' 5' 8 ;>21)' : > ' N<' 2A 8' BB4 @' 54' ; ' 148 B4 @' ; 9' 6 8)' ' M.⁄' 5 5A)' 8 23 3?' 4%'56 ' B6>2 '[' 43?' 4%' 4)-' $: ' C: ' ' T T ' 6 ' 235 G 59' 2 ' 2' A2 7 ? : >)' 5 ' CCC ' N ' B 1 A 2>' 1 >1 8 D 5231 ' 3@ >' 7 6 16' 6 ' A2 7 ' 7 > ' @ A : > @)' 2' B>44%' 4%' 6 ' : 3 8 43)' 5 ' : [0 ' 69' 6 ' A2 7 ' 59A @' ' 56 ' A : A9' 8 21A)-' 15 ' : ' L' 6 8 23 59' 23@' G 59' 4%' 6 ' > ? A25 43 ' P 56' > B 15' 54' A2: ' 23@' >:235)' 5 ' C: ' /F' B > 4> 59' 4%' 56 8' 54' 564 '4%' 56 '6 256 3)' &4&,⁄ ' "27' 4%' 4 T T' 3' 7625' 3 '6 ' 72 ' 2' < 3?)' 5 ' CCC ' 0 TT T' 2' B> 5' ; 9' 23' C5>24>@ 32>9' 148 8 43 ' " : ' : ' /0 ' 2' B> :2 3?' 35 >1 4>)' * > ' C: ' / T ' @ 5 3? 6 @' ; 956 ' 1A 2>3 'G%' 6 '> : A25 43 ' 8 ; ' C ' ⁄' 23@' 6 ' % @ A 59)' &4&, ' B2>5 1 A2> ' 3' 7 6 16' 6 ' @ %% > @' %>4 8' 56 56 >' >4B6 5)' : > ' L' 7 5%=' 8 35 43 @' B2>25 A9' %>4 8' 56 ' 456 >' >4B6 5)' 15 ' C: '\FF 'B>4B6 1 ' 4%)' 56 >' 3 8 ; >' 23@' @ 2>3 ' 5472>@ ' 56 ' 3@' P 4%' 6 ' A %)' 35>4@ ' 54' 5' 3 8 >25 43' 4%' 56 8)' &4&, ' 6 ' B>4B6 1 ' BBA 8 352>9' 54' *214 ; - ' 23@' &2A22 8 -)' 5 ' CC: ' " ' = 5 3? 6 @' %4>' 56 >' BA2 33 ' 23@' B> 1 43)' &4&, ' 2 ; 4 3@' 84 5' 3' 56 ' A255 >' B2>5' 4%' 6 ' 7 > 5 3?)' &4&, ' 5> 56' 4%' 6 ' B>4 ') = 1 ' 255 5 @' ; 9' 56 ' 764A ' * 7 6' 6 54>9)' : > ' F ' 6 ' %2> D 7 AA' ; A 3?' 148 B2> @' 54' *214 ; -)' 5 5 ' CCC ' / ' 3' B2>5' B>4D B6 5 12A)' &4&, ' 6 ' 4 ; + 15' 3' 5)' &4 ,+ T T' 769' 56 ' * 7 ' @ @' 345' 12AA' 56 8 A: ' ; 9' 6 ' 328)' / 4> . ' F' ; 9' 764 ' 32 6 ' 56 9' 7 > '<3473)' &4&,+ T T' 6 ' 162>215 >' 2'5 5 8 439 54' 56 ' 8 3 5>9' 4%' 6> 5)' ; ' 0' T =' : A' 4%)' 769' 2 @' 54' ; ' 43' 56 ' 6 2>5' 4%' 56 ' * 7)' F' 4>' /0' 3' 7625' 3 ' 5' 62 ' ; ' 52< 3' 2729)' : > ' A% 1 5 @' 54' B>4 : ' #4@-' 35 35 43' 4%' 12AA 3?' 56 ' # 35 A)' $48 . ' ' o 45)' 56 ' 8 23 3?' 4%'56 ' 74>@ ' 255 ' : ' 456)' 2' 74>8' 5625' ; > @ ' 3 1A456)' 4 ' : ' /F 456 >' 3' >2 A)' 769' ; 4>26' 4' 18A @)' * @?' : ' W' 456 >)' 769' > G > @' ; 9' 56 ' %4 >56' 48 823@8 35' 54' ; ' 64D 34 > @)' 5 ' , ' /M' % 15' 4%' 56 8' 28437' 56 ' 29B5 23)' 56 >' @ 59' 54' 3 5> 15' 56 >' 16 A@> 3' C 8 BA % @)' / 8 ' /0' 314 >2? 8 35' 54' 5)' &4&, ' 4 35+ @' %4>' 56 ' 25521<' 4%' 2' 1 59)' @ 1> ; @)' * > ' CCC ' F N.' U < ' : ' F' = ' =') 5625' 8 ?65' ; ' 54 16 @)-' 7625' 8 235' ; 9' 5)' ; ' C ' /L B6>2 %)' 7 6 0- ' 5 25 @)' # 3 ' C ' L # > U 8)' 84 35' ; 2A)' 56 >' > A25 : ' 5 25 43)' 5 ' CC:)' / F ' ' 45) ' 4>' 84 35' >)' 5 ' 5 25 43)' C4@ ' C: ' FF ' 4> ? 3' 4%' 5 ' 328)' &4&, + LL L' 4>)' 84 35' " ; 2343' 314>> 15A9' 4' > 3@ > @ ' 8 ;)' CCC : T ' " ; 2343)' 5 ' 5 25 43 ' 8 ;)' CCC : ' F ' 769' 4' 12AA @)' &4&,⁄ 5 ' @ : 43)' &4&, + >)' 76 > ' 5 25 @)' 5 ' ' ' 647' @)' &4&, + T = ' 43)' 647' 12AA @' ; 9' 4)' C4@ ' C: ' /W' 23@' 769)' &4&, S 4+*6' B > 5 2AA9)' ; ' C ' FF = T ' B>4 ; 2 ; A9' @'%4>' >43)' 5 ' : ' NL ' ' ' J] . ' = @ ' Q 4 352 3' ; >3 3?' 7 56'% >)' 12 5' 354' 56 ' 2)' 7625' 5' ?3 %)' $: ' : ' 4 352 3' 2 5' 354'56 ' 2)\ 7625' 5' 43 %)' $, ' , .' L= '148 B2> 43' 54)' CBA 8 3 @ ' ' F ' P T T' &2 ; 9A43' 769' 4' 12AA @)' % ' (&+' Z+>G 64A9)' 7625' 5' @ 345)' U < ' C: ' ZH2' MM+' N) < 3?@4 8 ' 4%'56)' %4> 54A@' 23@' M-(&0 , ' 0+' &&+' HY&+ TT ' 43' 7 6 16' 6> 5' @ A : > @' 6 ' >843)' 5 ' 5 25 43)' 25%1 , A ' T.T ' 23@' A23@)' BA21 ' 4%' ?> 25 5' 1 > 59' 3' 5 8 ' 4%' @23?7)' 647' 2AA @ @' 54' $: ' : ' /N 4 352 3 ' 231 35A9' @' %4>' 74> 6 B)' # 3 ' C ' F ' 63/' ? 3 D >2AA9' B>46 ; 5 @' ; 9' #4@)' &4&,+':769' 8 35 43 @' *) 3 %' 7 56')%*' '&4&, + '%4>' ?> 25' B> 31)' ' CC: ' N ' %4>' 325 43)' * > ' C: ' H+ = 84: 3?' 4%)' 7625' 5' 8 23)' V 16 ' > ' W' - T =' ; 4554 8 ' 4%)' 7625' 8 235' ; 9' 5)' *4326' ' D+A 4 >3)' =' 56 9' 5625' 84 >3-' CBA2 3 @ ' 255 ' : ' N 4 >3 > '14: > 3?' 56 >' %21 ' 2AA @ @' *+' ' (&&&+A + T T ' 6 > @)' @ 1> ; @)' * > ' C ' /W 4 >3 3?' %4>' 56 '@ 2@)' 1 548 '4%' 5' 3' 56 ' 2 5)' Z' +' M&&+' ' T ' 64 '4%)' B>4% 5' 4%' ?4 3?' 54)' 11A ' : ' F 6 2@' 62: @' 3)' U < ' CC : ' /W 4%'56 ' * 7)' @ >25 43' 4%' 5)' *463' C ' B 4)' %A 6' 4%)' %4>; @@ 3' 8 25' ' C: ' /W' 4 56)' %> 7 AA' 4%% > 3? ' 4%)' CBA2 3 @)' ' 1C C ' / L T T ' 4%' 56 ' A 43)' G 5 43' 1431 >3 3?' 5 ' ?3 % 125 43)' F' & +' # /W'] A)' 54' > @ ' 43' 56 ' < 3?- ' 8 A)' 647' 5 8 @)' / ! 3? ' ' ' A)' 76 3' 56 9' ; ?23' 54' ; ' @' 3' * @ 2)' F' 28 ' C ' FB ' '4%'56 8)' &4&, + >@ >)' 2' 12 '4%'B> 35' $ %&0)' *' 3 ' 8 >@ > >)' # 3 ' : ' /N 84> ' 6 34 '46' 2114 35' 4%'4 >' > A25 43' 54' 216' 456 >)' # 3 ' C ' 0' 23@' 54' #4@)' : > ' M ' 56 ' A27' 2?2 3 5' 5' 3 : > 2A' 23@' B >B D 5 2A)' &4&, ' 769' 34' 25 %215 43' 54' ; ' 52< 3' %4>' 5 ' 8 ; ' CCC : / ' B 3 6 @' 2A 84 5' 3 : > 2AA9' ; 9' @ 256)' &4&,⁄ 4 2 12A' A27' : >9' 8 B625 12A' B43' 5)' &4&, ' 14>> B43@ 31 ' 4%' 56 ' &> 5 6' A27)' &4&, ' 2>>4?231 ' 4%' 2' 4A 6' 8432>16' B43' 56 ' ;+ 15)' &4&, + T ' 4%' B2> 35 ' 544' C 1>2 ; A ' 54' ; ' 8 35 43 @' 3' 56 ' A27 ' 4% ' 4)' 5 ' CC: ' AM ' 2 ' 3' 48 ' 456 >' 231 35' A27)' &4&, ' 34' 3148 843' 1> 8 ' 2 ' 3 G 59' 2 ; 4 3@ @' 3' 56 ' 74>A@)' &4&,⁄ >@ >)' 1> 5)' B>4 : 43' %4>' 56 ' @ 14 : 9' 4%' 56 8)' 5 ' CC5 ' / ' P >@ > >)' 7 A% A)' B>45 15 @' ; 9' 34' BA21)' C4@ ' CC ' Y+ 4>' [' 64>5' 74>@ 8 3)-' 2' @ 1> B5 43' 4%' 56 8' %>4 8 ' *4 B6) 15 ' CC ' L ' >>2 3)' BA2? ' 4%)' > 82>< ' 43)' C4@ ' C ' ' 5 ' B2>5 1 A2>' 14B ' 7 56' > ?2>@' 54' 56 ' ?9B5 23)' &4&, ' 5 ' B>4 ; 2 ; A ' 3%A 31 ' 43-' 56 ' 8 3@ ' 4%' 56 ' >2 A 5)' &4&, ' 5 ' C5 35)' : > ' M ' 769' 2' 5' 5 8 ' 2BB4 35 @' %4>' 5)' &4&, + 1<)' 5 ' 2>A9' ' 3' #4@- ' >: 1)' C4@ ' C: ' F ' 5 ' %% 15' 3' 148 B4 3?' 56 ' B > 5)' / 28 ' C: ' F .' 56 ' 2@: 2352? '* ' '1A ' 2A 729 ' @' 25'% 2 5 ' 3' 2 5 >3' 14 35> ' ': ' /F.' * > ' : N 23@' @231 3?' 43' 4112 43 ' 4%' > +4 1 3?' 3' 56 ' 2 5)' " < ' C: ⁄ Z>+' 12A' 3 5> 8 35 '4%'231 35' C M 8' @ %% 1 A59' 4%'@ 5 >8 3 3?' 56 8)' 23 ' ' 0 1 23)' 56 ' 16 %)' @ > 154>' 4%' 3 ' 21> @' 8 1<' 4%' 56 '5 8 BA)' ' ': ' 5 5A 52>@' @)' 647 @' B>4 : > ; 2AA9 ' 255 ' C: ' F T T' 5>)' 5 ' U ' 3' 56 ' 2 5)' 255 ' C ' F 5 >' 4%%56 ' B 4BA)' 769 52< 3' ; %4> ' 56 ' > 15 43' 4%' 56 '52 ; >D 321A ' 8 ; ' ' F ' 769' 52< 3' 2?2 > ' 2%5 >72>@)' &4&, ' 769' 148 D 823@ @' 2' 56 >@' 5 8)' 8 ; CC: > ' F 56 2 ; ; 3)' 8 23 3?' 1 %'56 '5 >8)' ' C ' 5 5A 5 2A ' > A25 43' 4%' B > 43 ' 3 ' 56 ' 6 >16' 345' 6 3@ > @' ; 9' @ %% >D 31 4%'4%% 1) $48 ' C ' 0 9>>6' 23@' %>23< 31 3) ' 324 5' , 2A @' B >% 8 ' 43?' 4%' 4A ' : ' M ' 769' 4% > @' ; 9' 56 ' 2? ' 54' 4 >' "4>@)' 255' &&+' ⁄ 9 5 >9)' 48 5 8 ' @' %4>' 56 ' 764A ' 4%' 56 #4 B A)' B6 ' J ' 48 5 8 '%4>' B2>5 1 A2>' @ 14: > ' 3' 5)' &4&, ' 48 5 8 '%4>' 56 ' 12AA 3?' 4%'56 ' # 35 A)'] T =' 56 ' 328 ' 4%'56 ' 748 23)' 8 BA9 3?' 5625' 6 '@ 2A ' 3' 8 9 5 >9 ' $: ' C: ' 0 ' 8 9 5 12AA9' 23@' B > 5 2AA9' &2 ; 9A43' 56 ' # > 25)' ' &4&, G T T ' 4%' ?4@A 3 ' 3%4A@ @' 3' C' B>4B4 5 43)' / 8 ' ' AM ' 2AA' 4%'56 8' 3%2AA ; A9' 5> 4%' 6> 5)' &4&, ' B2>5 1 A2>A9' CBA2 3 @)

P 95>)62: 349 345 54 ; @>27 :@473 54 6 823 > 243))
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46 56 <3?@48 46 6 2: 3) CBA2 3 @) 255 =C # #

! 5 5 25 43=* 4;
^M B>4;2;A9 345 C1A @ @ %>48 41 59 ;9 6 A B>4 9) !3? : 6 7>256' 25)56 8 23 46 1 > 3+4 3 @ B43 6 8 ;9 A 62) : >' 6 ?34>231 5625 8 >21 A4 8 23 7 > 54 ; 8 BA49 @)) + > A 2BBA 125 43 46 ; C2 8 BA 54 4 >D A:)&4&, 56 2@: 1 4 6 >:235 54 6 8) : >' \# 6 62B B 3 3)'; 3?1 > @4 6 A B>4 9) 23@ 6 7235 4 %2 56) : > /0 6 ?>25 5 @) 0 @ 6 7 6) 54 >2 23 2A52>%>48 56 21> @ 2>56 4 56 A23@4 >2 A) : >/W 6 BA 2 54 255 3@ 6 K82 5 >54 56 64 * 8 843) : >/L @ . 2: @- 8 2? 54 6 B 2%%4>@ 2 %3 B 15 > 4 2B1 35 23@5> B4A5 3) / 28 CC: 0 6 > @ 23@ AA 3 23 7 > 54 2: @) : >/ '' 6Z3: 6 325 > 14>> B43@ @ 54 ; 328) : >F0 6 @ 256))23@ 56 +3 5> 1>43 54 ; @>273 %>18 6) C28 BA) : >H\# @ %2;25A723 %2; + 21 C) 0 12AA @ V2;2@ 23 / 21 C /))) @ D H%% B>4B6 19 > B 15 3? 6 8) U < CCC @ 6 :2A %4> 56 B4 43 4 6 231 54>) / ! 3? CC \# 7625 8 235 ;9 6 ; 3? 5 43 6 ?6) : >Z 769 211 @ 4 ;A2 B6 8 3? 56 < 3? 2 7 AA 2 #4@) : > 56 >14>> B53 4 56 B ;6 <4 1 > 3 143@ 8 3 3? 6 8) : > P 56 @ 5 52;A 325 > 4 56 1435> :231 ;9 76 16 6 @ 256 72 21148 BA A @) &4&, 769 56 @ 256 4 6 43 345 8 35 43 @ 3 =6 6 54>9) ! 3? C) @5 % BB4 @ 24 16 @ 3 * @ 56 \ @ 23@ N@ 5 3 7625 56 > 1> 8 143 5 @) " : C 56 > B 3 68 35) : >) 5 3 1 59) &4&, 56 > B 1 2A 4;A ?25 43 54 4; @ 31) &4&, 56 > 1> 8 3 C1 2;A) &4&, B>4;2;A 2??>2D :25 43 4 5) &4&, 2BBA 125 43 4 6 > %25 54) &4&, / `4/12>D > @ 3 56 > 1425 4 5 4 56 128B) : >'0 769 56 B> 5 %4>; @@ 3 54 84 >3 %4> 56 8) : > %A 15 43 43 56 > 4%% 31) 8 ;) C: 0) 4 769 6 @ > @ 54 56> 5 4 5 56 > ?65 9 56 8 3 *2; 6p 28) C F 56 A@ > ;>456 > 4 ;>2628) # 3 C) D# 4& > A25 43 54 A126) : > 769 56 2114 35 4 6 %28 A9 35>4@ 1 @) + # 3 CC) 4 26 231 54> 4 6> 5) 8 ; :) 5 4 A<4 6) 76 3 6 B>4B6 @) 35>4@ 54 26 8) 6 ;44<2 B >% 15 B4 8) &4&, 6 59A) &4&, 2 A) 148B2> 43 54) AA 5>25 @ CC F %4> 7625 @ 3 2 5 >3; A@ 3?) &4&, V 16 C N T ` Q54 ? : 2 3%% Ai B 1 A2> 8 23 3? 4 56 B6>2) U>2 C T T 4 56 5 35) @ 1> B5 43 4 564 @ ;9 56 >2;) * @? :]) Q 2 A 3? 5 54 1>4)-2AA 43 54 23 231 35 1 548) 4A /N 6 5 5 25 43) " < :) 2< @) 5 8 23 3? CBA2 3 @ 4 B2>5 1 A2> 1 548) 28 C C F .; *4;CC D2 CC .; *463 CC . 15 C C A 3 7625 3 56 B 4BA 4 >2 A 7 > 4) C4@ CCC FO 2< @3) 2 3 4%) 769 3 : > 2AA9 21148B23 @ 7 56 2 3 4 628) # 3 A 28) 3 7) ? : 3 54 %2:4 >5 ; 9 2 5 >3 B> 31) # 3 CA N0. 23 <54 ; 12AA @ *O T 7625 5 ?3 %) # 3 CA: AM 345 ? : 3 ;9 56 231 35 7 564 5 > 2 43) C4@ 6 / 5625 4 %#4@ CB> : 4% " 255> ; 5) &4&, 23@ 4 56 D 26) &4&, >:235 <3473 ;9 5625 * 56 > %# $ 4 CC 2AA9 ? : 3 54 2 16 A@ ;9 56 %256 > 4> 8456 >) $ 56 : 4 56 :23G 6 @) 4%5 3 1623? @ ;9 .*OK$ %*% J ! 3? CC N 5 AA %> G 35A9 1623? @ ;9 56 2 5 >3 B 4BA 43 B2>5 1 A2> 411 >> 31 4 56 >) A:) ! 3? CC : /W 328 62AA ; 12AA @) CBA2 3 @ C 7625 8 235 3 1> BD 5 > ;9 2 B > 43 4> 56 3?; G 3? 12AA @ ;9 2 1 >52 3 328) U < CA: H># B 1 A2>%4>1 4 %56 74>@) 6 N 4% *, 63 5 ?3 %) C4@ CC 255 : J 4%56 "4>@) @%4> 255 ; 5) C4@ CCC : 0 4%#4@) ?44@ %% 15 4%23 62; 5 2A > : > 31 %4>) 5 9 / / C28BA 4%5 3 > &49A) 5 : AA) 647 4; >: @ ;9 56 * 7) 3325 >2A 23@ >> A?4 143@ 15 4%-564 764 B>4%23 5) &4&, B 5 %4> # 4@%% 8 A% 5 C 0) 3 5231 4% 5) &4&, 54 72A< 3 328 Y CBA2 3 @) 1 : 0) @2 B6 8 @ 28 43?56 # 35A) CBA2 3 @) $48 FN 28 4%*) 7625 5 8 23) 6A / 4% 6> 5) 647 ?A4> % @) F 6 / /F 4% 456 > ?4@) 3 7625 3 345 54 ; 8 35 43 @) C4@ CC /) 28 4%4;+15 4% 74> 6 B) 56 > 8B4>5231 3 ?9B5) C4@) / 76 31 5 %* &4&, 14>> 15 @ ;9 #4@) &4&, + 4%BA21) 48 4% 564 3 56 3525 16 76 3 BB4 @ 54 62: ; 3 3 >5 @) 5 CCC : / #> < @%4> ;>7) / 21 NM #> < 328 @4 ;5 > B 15 3?56 @4A 4 12AA @) F 21 / L) 6 > 8 >2;A 525 23@%4>5 5 @ 3@ > 5) $ 56 W 6 > 328 34 A43? > 5 @ 54 6 > 143@ 5 43), > F 6 > : >5 23@ B 59) &4&, 6 > 6 2>5 5 43 B>4: @ 3?%4> 6 > @2 ?65 >) $ 56 / 56 +49% A 1623? 4% 1>1 8 5231 3 6 > %2:4 >) $ 56 : @4 ;5% A 76 56 > 6 > 43 @ @ : 3 52< 3? 7 : 4% 56 @2 ?65 > 4% 42;) $ 56 N) D . *214;-B>4B6 19 4%) CBA2 3 @) # 3 CA C FA 5> ; 4%) 5 ;A 3? ;9 4 CBA2 3 @) 5 CCC A F 769 2 @ 54 B4 56 7 5 23@ 56 4 56) ; @) 6 B2>2;A 2>5% AA9 %>28 @ 54 C1 5 148B2 43) 9 28 C / 6 > 843 5>231 7 56 2: @ 74>569 56 @ ?3 59 4% 2 >4B6 5- 162>215 >) : >J 23 3%4 3@ @ 3 3 25 43 2??2 3 5 6 8) / ! 3? / // 6 215 : 59 2?2 3 5 @43 +26) ; @= 25 43) C2A5 @ ;9 > A? 7 23@ : >5) >@: C : N T A41 5 4 12AA @) *4 A M =) 25 432A ?> 253) 3 7625 5 5> A9 143 5) 5 : FJ C 8BA % @ 3 56 6 54>9 4% 56 * 7) T 62BB 3 23@ 8 >9 14>> B43@ 35 54 56 ?44@ 23@ ;2@ ; 62: 4 > 4% 2 325 43) 5) C FW) FL) C 8BA % @ 3 56 6 D 54>9 4% 56 >2 A5) ; @) 2BBA @ 54 456 > 325 43) @ T T > B 35231 143@ 1 : 54 B ;A 1< 11) 5 C) J B 3 68 35 23@ > 72>@ B>4B4 @ 2 2315 43) 4% 56 * 7 6 A27) 5 :))))) 25 43) 647 B4< 3 4% 3 56 > 325 432A 12B21 59 8 ;) C :) B 3 6 @ %4> 56 > 3 23@ @ 5>49 @) CCA: F 3 3) 76 16 56 74>@ @) 84 : / T 4%56 02>56) 56 > 143@ 5 43 2114>@ 3? 54 5 2 A- @ 1> B^ 5 43 4%56 8 > 82>< @ 43) B6 :)) 25 : 59 4% 6> 5) 647 54 ; 5 8 @) " < / > %A 15 43 =43 5 C1 5 3? 56 5623< ? : 3? 4%23? A) : > /) /N)] 25 >2A 2%% 15 43 23@ 5 8 B4>2A 35 > 5 345 54 ; B> % >> @ 54 56 #4 B A) " < C : F4) 823) 162>215 > 4%) 4> /N 7625 B > 43 5 ; A43? @ 54 3 5 2 A- 5 8) ; @) 647 4BB4 @ 54 56 B > 5 2A 823) ; @ T T > 2 43) 5 3 %% 1 319 %4> 2 ? @ %4> 823< 3@) $48 F B>4: @ 3 56 12 4%56 #> <) &4&, 23 2>? 8 35 %4> 56 3 D 1 59 4% 56 #4 B A > : A25 43) &4&, ! T 525) O* 5452AA9 @ B>2: @) $48) : FF 7625 5 215 2 9) &4&, = 25 >) 4B 3 43 1431 >3 3? 56 3 3 3 76 16 56 74>@ @) / 4> C /N T T 74>< 4%) 823- @ 59 54 5 @9 56 8 *4; CCC: FN B> D B2> @ 2 3 5> 8 35 4% #4@= B>4: @ 31) *4; CCC: / . @ F 5A > B >% 15 43) 11A CCC C N 25 >) @ : 3 23@ 6 823) 5A > 3 43 3 56 B > 43 4% 6> 5) #2A : N 43 4%) 769 *4 6 2 4 12AA @) 11A CA: + O [62AA ; 12AA @ 2)- 76 31 56 74>@ B>4;2;A9 52< 3 255 F _ % 6> 523 4 12AA @ 3 43A9 43 B2 2? 4% 1> B5 > 15 CC : O 2>A9 6 > 51< 4 12AA N) 764 56 9 7 > * *463 /J) ' 5 5 25 43 23@ 84@ >3 525 255) ; A43? @ 54 V ; A 3) C F 769 256232 A CB 15 @ 3456 3? ?4B@ 54 148 %>48 5) *463 NM T T [M %5% 4% 522> 56)- B4< 3 1435 8B5 4 A9 ;9 56 * 7) 15 CC: R

2 K ; 1 ' I J ' I - ; ' 9 ; 2 , 29 . C ' . I I ; ME

o @ ' 325 > ' 4 %' 6 ' : 4 7 ' CBA2 3 @ ' 8 ; ' : ' F .' * @? ' C
N ' 7 69 ' 6)' 2 ; 52 3 @' %>4 8 ' 5>43?' A G 4>)' 0 8 ; ' : ' ' 647 ' A43?'
6 ' B2>25 43' 8 ?65' 1435 3)' : > ' N ' B >B 5 2A' 2U2> 5 ' 3 : >'
62 : 3)' : >' ' %' 6 ' : 4 7 ' 35 >> B5 @)' 7 56' 7 625' 1 > 843 '
> 3 7 @)' &4&, ' 4%% > 3? ' 8 2@ ' 43))' 5 ' % A% A 8 35)' : > ' /N ' B > D
% 125 43' 4 %' 564 ' 3@ >' 56 ' : B 7)' 15 ' CC ' FN)' 23' 215' 4 %' B 59'
54' @ % 29' 5A ' CB 3 ' 4 %' 56 >' B > % 125 43)' &4&, ' 56 ' B > 43'
8 ?65' 1644 ' 56 ' 3 8 ; >' 4 %' @ 29 ' %4>' B > % 125 43)' : > ' F6
o % ' B > 43 ' 4 %' >23<' @ 5 315 43)' ' : '
@ ' 43' 4 %' 6 8 2 A)')' AC ' W ')
@ ' 7 6 > ' 5 25 @ ' 8 ;)' CC : ' /F .' %E 5 ' CCC : ' /
T)T ' 56 ' @4A)' 7 625' 5' 8 23)' A <' CA: ' /
@5 oo '2114 35' 4 %' 6 8)' F ' ! 3? ' CC : ' / ' 3' 7 625' 3 '
4@' 35' 6 '%4>1 ' 2?2 3 5' * @26)' : > ' F ' 7 6 3' 6 '12>> @' 2 729'
56 ' : A ' 4 %' 56 ' 5 8 BA)' F' 6>43 ' CCC : ' <# 6 ' 14 3 A ' 4 : >D
> A @' 54' % A% A' 56 ' : 3 ' B >B4 ' 4 : >' 56 ' * 7)' : > ' F / ' 12>D
> @' 12B5 : ' %>4 8 ' ?9B5' 54' &2 ; 9A43)' U < ' CC C ' /F ' %4 3@' P
3456 3?' 4>56' 6 ' A2 ; 4 >' 25' 52< 3?' 4 %' 9>)' : > ' /L ' B 3 6 @'
7 56' 82@3)' 23 ' : ' /M)' 7 69' ; 2 5' 4 %' 8 3)' : > ' /W ' 7 69'
> 54> @)' : > ' FM ' 647 ' 2 @' 54' 62 : ' ; A5' &2 ; 9A43)' : > ' ' 2'
% A' C28 BA)' : >) W ' B>4B6 5 12AA9' @ 1> ; @)' * > ' C : ' L
@5 oo ' 328 ' 647 ' 4%5 3' @ %% > 35A9' B A5)' * > ' CC ' F '
* 7 6' 23@' &2 ; 9A43 6' 84@ ' 4 %' 148 B 5 3?' 6 '> ?3)' * > ' CC : '
/ ' 148 B 525 43 ' 4 %' 5' @ %% > 35)' 23 ' ' / ' 7 69' 12AA @' 56 ' 74>@'
4 %' # 4@)' V B6 ' ' /F
i' 1 2>9' @415> 3 ' 23@' > @ 5 43' %4>' 239' 6> 5 23' 823)-' ; 44<'
4' 35 5A @)' 1 5 @' 54' CBA2 3' 2' 5 C5)' f 6 ' : ' M
1 59' 4 %' ; 3?' 3% A' 345' A2 @' B43' 8 3)' $ 4 8 ' ' FL .' ' L
' '6 ' CB @ 5 43' 2?2 3 5' 56 ' @ ' 23@' &2 ; 9A4D
3 23)' F ' ! 3? ' CC ' ' 6 ' 11 ' 2?2 3 5' 56 8)' : > ' ' 56 '
8 23 3?' 4 %' 6 ' 2 >5 43' 5625' [# 4@' 148 823@ @' 6 8 ' 54' 82< '
62 5)-' F 6>43 ' CCC : ' F /
1<)' %2AA 3?' 43' 23@' < 3?)' 2= 2 5 >3' 1 548)' # 3)' CA: ' /N
T T' %4>' ; 2@^' B2>5' 4 %' 3 1<)' ' C : ' N
' 5 %%)' B>4B> 59' 4 %' CB> 43)' CBA2 3 @)' ' CC : ' 0
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1< ' 4 %' 1> 8 32A ' 764 ' 6 2@ ' 2> ' 54' ; ' 1 5' 4%%' BA21 @' 43' ; A41< ')'
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?25 :)' 7625' CB> @' ; 9)' 3' 1> B5 > ' B6>2)' C4@ ' C : ' L
' \ :' B2>5 1A)' 64 ' @' 3' ; > 7)' ' C ' /0
' ' T ' 8 > 5' 3' > A ? 4 ' 8 255 > ' 345' % 1 35' 54' B>41 > ' 56 ' %2D
: 4 >' 4 %' # 4@)' " < ' C C ' F
? 3456)' CBA2 3 @)' : ' 5 5A
' B> 1 B5 ' 4 %' 56 ' A27) 7625' 35 3@ @' ; 9' 56 8)' $ 48 ' C ' /
TT ' B43' 6 8 3 56)' CBA2 3 @)' ' : ' 5 @
?A 15 3?' 4 %' 56 ' ; 4@9' 345' 7 @48 ' ; 5)%4AA9) 4A ' ' FL
H I ' 34' 1 >52 3' 2114 35 ' 4 %' 6 '5> ; ' 4>' %2 8 A9)' 6 ' ' ' 2'
?32A' 3 5231 ' 4 %' B ; A 1<' B > 5)' 23@' A4 : ' 4 %' 4 >' 14 35 +>)' 3 '
5>4@ ' 54' 6 ' ?3 % 125 43' 4 %' 56 ' 32 8)' 6 ' ' / ' 6 ' ?> %' %4>'
56 ' > 34 ' 525 ' 4 %' * > 2A 8)' : >)' .' A ')' ' 6 ' 2>3 5'
B>29 >' 54' # 4@' 3' 5 ' ; 62A%' 6 ' ' N ' 2' B54>%' 4 %' 6 ' 2>@ 35'
B 59)' &4&, ' : > ' L ' 325 > ' 4 %' 6 ' 4%% 1 ' 4 %' 1 B ; 2> >)' : > ' '
56 ' ? 3 >4 59' 4 %' 6 ' 1431 >3' %4>' 6 ' 14 35>98 3)' &4&, ' 2 D
5 @' 3' 6 '> G 5' ; 9' 56 ' G 3)' @ ')' ' 6 ' B> @ 31 ' 23@'
14 >2? ' +4 3 @' 7 56' B 59)' : >)' F ' 6 ' B>29 >' 2?2 3 5' 23 ; 2A '
A25' 54' ; _' 143 @ > @' 2 ' B>4B6 5 12A)' 6 ' : ' 0 ' 6 ' > ; < ' 4 %'
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, ' WT ' 6 '5> ' B25> 45 8' 23@' B 59)' : ?> ' J ' 6 ' @ 35 > 5D
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7 B ' 4% ' 56 ' 8 84>9' 4 %' 6 ' ?44@' @ @)' : > ' ' %>48 ' 7625'
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6 ' : ')' 7625' 6 ' C28 BA ' 6 7)' : > ' /W ' B>4 ; 2 ; A9' A %5'
* > 2A 8' 43' 2' 64>5' 2 ; 31 ' 2%5 >' 56 ' 2AA' 72 ' 148 BA 5 @)'
6 ' : ')' 6 ' 2@ : 1 ' 4 %' B> 12 5 43' 54' 564 ' A %5' 3' 56 ' 2>'
4 %' * > 2A 8)' : > ' ' 6 ' 12> ' 54' 55A ' 56 ' ? 3 2A4?9' 4 %' 56 '
: >2A' 5> ;)' : > ' ' 6 ' C28 BA ' 4 %' A ; >2A 59' 3' 1435> ; 5 3?'
54' 56 ' CB 3)' : > ' ' 6 ' 1 > 8439' 4 %' @ @ 125 3?' 56 ' 1 59'
76 3' 56 ' 72AA' 72 ' > ; A5)' 6 ' C ' FW ' 7625' 72 ' 8 BA @' ; 9'
56 ' 1 53439)' &4&, ' 6 ' ?> 25' B 59' 6 73' 56 > ; 9)' : > ' N '
1435 3 @' 56 ' B ; A 1<' > 2@ 3?' 4 %' 56 ' A27' 25' 525 @' 5 8)' 6)'
C "' ' @4 ; 5 ' 2 ; 4 5' 56 ' B > 4@' 4 %' 6 ' 2 ; 31 ' %>48 ' * > 2A 8)'
: > ' ' %% 15 ' : 2> 4 ' > %4> 8 25 43)' : >)' /0)' ' @ 34 31 ' 56 '
1 > ' 4 %' 56 ' A27' 2?2 3 5' 46 5 325 ' 4%% 3@ >)' 23@' B 6A 1<A9' B D
3 6 ' 56 8)' : > ' F0 ' B>29 ' 54' ; ' > 8 8 ; > @)' 23@' B2> 8 ' ; 9

4@)' 6 ' C ' FF ' 6 ' B>29 >' 4>' 56 ' B 3 6 8 35' 4 %' 564 ' 764'
@ % A @' 56 ' 4>@ >' 4 %' 56 ' B> 5)' %' 56 9' > 8 2 3 @' 8 B 3 5 35)' : >
' 6 ' ? 3 >2A' 162>215 >)' 23@' % A' M -(' &4&, ' B>4 ; 2 ; A9'
56 ' A2 5' ?4 : >34 >' 35' ; 9' 56 ' > 23' < 3? ' 54' $, '%4&, +
T T ' ; 44<' 4%)' 7 > 55 3)' ; 9' 6 8 26)' 35>4@ ' 54' 6)' 5 ' ? 3 >2A'
1435 35)' &4&, +
6 A456)' CBA2 3 @)' ' : ' 5 5A
6 6523)' 8 23 3?' 4 %' 56 ' 7 4>@)' F ! 3? ' C : ' N
?6 ; 4 >)' 7 >43?' 54)' 2' 3' 2?2 3 5' # 4@)' " : ' : ' F .' 8 ; ' : ' M
' A4 : ' 54)' 647 ' 5' 2BB 2> ' 54' ; ' 56 ' % A% AA 3?' 4 %' 56 ' A2 7)' 5
' F / ' ' "4 :
T TT' 56 ' 5> ' 23@' 3A2>? @' 8 B4>5' 4 %' 56 ' 7 4>@' ? : 3' ; 9' 6> 5)'
" + ' , ' W ' 5 ' 1435>215 @' 3 ' 8 B4 @' ; 9' 56 ' * 7 6' @41D
54>)' : > ' ' 764' ' 56 ' 6> 5 23- ' 3 ?6 ; 4 >)' $ 48 ' C ' '
7625' 56 ' 7 4>@' 148 843A9' ?3 %)' : > ')' B>215 12A' 2BBA 12D
5 43' 4 %' 5 ' 8 23 3?)' &4&, +
?6 ; 4 >)' : A)' 764' 4' 12 @)' * > ' C ' /N
B6 7)' 8 23 3?' [' 43- ' 43)-' ' C : ' ' 7625' 5' ?3 % @' 76 3'
4 >' 5>23 A25 43' 72 ' 82@)' ' 8 ' : ' N
' B > 1 5 43' 3@ >)' B >62B ' %4> 54A@' ; 9' 5' 2 A)' / 4>' :
' %% 15' 4 %' 6 ' 1> A59' 43' 56 ' 6> 5 23)' ' 8 ' : '
5)' 82? ' %>48 ' ' 4 %' 5)' %2 8 A 2>' 54' U < A)' U < ' C ' / '
X % ' @ 1> B5 43' 23@' 2114 35' 4 %' 56 8)' / 6>43 ' C ' F ' 56 '
3 8 ; >' 4 %' 56 8' 5625' 12 8 ' 7 56' U>2' 23@' V > ; ; 2 ; A)' &4&, +
574><)' 7625' 56 9' 7 >)' CBA2 3 @' ' C C '
7 ' ; >56)' B> : A ? ' 4%)' 54' 7 648 ' 56 9' ; A43?)' $ 48 ' : ' ' 647 '
' 82@ ' %%% 15 2A' 54' % 5 > ' 62BB 3)' &4&, ' 54' 7 625' 2BB>4B> 25 @'
3' 1> B5 >)' &4&, ' 7 625' 3 : >' CB> @' ; 9' 5)' &4&, ' 345' B4 D
; A ' 54' ; ' > B 25 @)' B6 ' : ' 0 ' > G 5 ' 54' 143 5 5 5 ' ' 6> '
)5 23 ' 5 ' ' 0 ' 76 3' 7 ' 2> ' 3 7' ; 48)' &4&, +
7 ' ; 4>3)' 647 ' 7 ' 829' ; ' 3' 2' 74> ' 525 ' %4>' 62 : 3?' ; 3' 4'
2A ' : ' /0 '
; 2 ;)' 6> 5 23' 143 : >5)' 647 ' 148 B2> @' 54' 56 8)' / 5 '
F ' 3' 7 625' 7 29' 56 ' > 8 ; A231 ' 6 73' 3' 56 ' 2>A9' 2? ' 4 %' 56 '
6 >16)' &4&, +
7 ' 1> 25 >)' 647 ' @' 3' 56 ' 7 ' 528 35)' $ 48 ' :)' ' 43'
7625' BB4 5 43' 2 @' 54' 2 : 2 A' 54' 2A : 25 43)' # 2 "' : ' /0
[' 6 2 : 3 ' 23@' 2' 3 7' 2>56-' CBA2 3 @)' F 5' ' / .' $:
CC ' / ' ' >
' 8 443) 21> % 1 ' 43)' 7 69' 4>@2 3 @' 8 ;)' CC : ' / / ' 769
CB> A9' 2BB4 35 @' 54' ; ' 4%% > @' 354' 5A ' "4>@)' : > ' /0
' 328)' 7 69' > 1 : @' 3' ; 2B5 8)' B6 ' : ' 0 ' B > 43 ' >2 @
54' @ ?3 59' 4%5 3' 3 : 5 @' 7 56' 2' 3 7' 328)' $: ' ' /W ' 7625' 5'
8 BA)' &4&, +' ' 28
Q 82< ' 94 ' 2' 3 7' 6 2>5)' Q1 -' CBA2 3 @) U < ' C : ' /
73 ' 4 %' A %)' 7625' 5' 8 23)' $ 48 ' : ' N ' 23@' 769)' &4&, ' 647'
%% 15 @)' &4&, +
Q' T T ' 4 %' B > 5)' 23@' 345' 56 ' 4A@3 ' 4 %' 56 ' A 55 >' CBA2 3 @)' $ 48
: ' D+
' 769' 6 ' B>41A2 8 A' 2A ' 4 %' * 7 6' 12B5 :)' ' 21 ' "' N / '
1 3 ' > @)' @415> 3 ' 4 %' 2' B2 2? ' 3' 5' 5 %4>56)' B6 ' : ' 0 '
5 >3 59' 4 %' 6> 5- ' < 3?@ 48 ' 769' 2 >5 @' 3' 5)' / 4>' C : ' FN '
8 23 3?' 4 %' 23' 2>5 1A ' 3' 5' 525 @)' / 8 ' : ' / ' CBA2325 43'
23@' B>44 %' 4 %' 48 ' 4 %' 5 ' @415> 3)' ; ' ' '
5 % ' 769' 6 ' 128 ' 54' * ' ; 9' 3 ?65)' * 463' ' F ' 6 ' 2 '
<347A @? 8 35' 5625' 8 >21A ' 7 > ' 2' B>44 %' 4 %' A > 5- ' : 3 '
8 43)' &4&, +' 6> 5' 4B 3 ' 54' 6 8' 56 ' % 3@28 352A' @415> 3 '
4 %' 56 ' 6> 5 23' %2 56)' : > ')' 6 ' 2>? 8 35' 3' @ % 31 ' 4 %'
6> 5)' * 463' : ' 0 / '
% ' 143+ 15 > ' > B 15 3?' 56 8 ' $: ' ' M ' B>4 ; 2 ; A9'
B4< 3' 4 %)' F' 5' ' / ']
14B4)' 5 25 43' 4 %' @ %% > 35' 1 5 ' 4 %' 56 ' 328 ' 5 ')' / F '
?6)' 7 625' 56 3? ' 2 @ ; 9' 56 ' ; > 7 ' 54' ; ' 4)' $ 48 ' C ' L '
?65)' 64 ; > 2< 3?' ; 9)' 7 69' 8 4> ' : > A9 B 3 6 @' 5623' ; 9'
@29)' C4@ ' CC ' ' ' K ' ']
' 56 ' 5 8 ' 76 3' >2 ; ' 8 5' %4>' 143 : > 25 43 ' * 4 ; ' "' W ' 3
>2 ; 2' 5> 2)' 35 3 A9' 14A@ ' * 4 ; ' CC : '
)T ' 3' 56)' %4>' [@@ 3A9)-' * 4 ; ' CCC : ' F0)
' T' 23@' @29)' 647 ' 4BB4 @' 54' 216' 456 >)' $ 48 ' C ' /F
. ' ; 256 3?' 3' 5' 2' > A ? 4 ' 1 > 8 439)' C4@ ' ' 0 ' 74> 6 BB @'
; 9' 56 ' ?9B5 23)' C4@ ' : ' /W ' 23@' 769)' &4&, ' B>4B> 59' 4 %'
56 ' + @? 8 35' ; 9' 76 16' 5 ' 7 25 > ' 7 > ' 5 >3 @' 54' ; A44@)' : >
F ' 2 ; 4 3@ @' 7 56' % 6) : > ' F / ' 5 ' 725 >' 6 ?6A9' 5 8 @)'
&4&, ' 5 ' 1623 ? ' 54' ; A44@' B>4 : @' 54'" ; ' B >325 >2A)' C4@ ' : "

2 K;1' I J' I -;' 9M2 , C' .II;ME

; >: '5 8)' CBA2>3 @' " : 'C C ' * ' ')
112 43' 54' %2AA)' 3*6' 5 A ' 4> ? 32A' 74>@' ' 453 5 > ' > 3@ > @)'
C : 'R' ' 7625' 5'@ 345)' &,5+)
112 43 ' 4%' : A)' 54' ; ' 2:4 @ @)' # 3 'CCC : ' L/ ' 45' 54' ; '? : 7 '
54' 456 >)' ' 4>' : ' / ' 647' 54' ; '2:4 @ @)' &`7&(+
@)' 21> @)' 43 ' 4%' 3? A2>' ; 2 59' 23@' C1 AA 31 =' C : 'FW
3 5231 '4%'2' ;A 8 '43)' =; ' '
TT ' 5> 8B6235)' 43' @ 5> 15 43' 4%' 33216 > ;- ' 2>8 9)' 2
CCC ' 35>4@' ' 9 8 3)' I % %' Q1
3)' >4B6 5)' 6 ' 72>3 3?' 54' 56 ' >2 A 5)' F' 6>43 'CC: ' J'
6 ' C64>525 43' 54' 56 8)' : >' ' B>44%' 4%' 6 ' ?> 25' 3%A 31 '
4: >' 56 8)' : >' /N
[' @4 >' 4%' 2' 7 5' 8 AA)=2' 21>%1)-' 54' 7625'56 'B2 2?'2AA @)
6 A' : ' /L' 7625'> B> 35 @' ;9' 5)
%% 31 '4%'56 '1>4)' 7625' 5' 8 23 ' #2A' : ' '-
' 7 A% A)' 2?2 3 5' #4@)' @23? >' 4%'43)' *28 ' '
%% 31)' B> : 25 '23@' B3 ;A 1<)' @ 5 315 43' ; 57 3)' '*463' : >' '
%% 3@)' 3' 56 ' 3 '4%'Q 3 32>)-' ['12 '54'%2AA' 2729)-' 255' : 'FJ'.
C ' N / .' C: ' .' '1C C ' AM0
647' A43?' 7 ' 2 ' ;+ 15' 54' @4' 4)' / *463' ' ' 3 G 59' 4%
56 '1435>2>9' B> 5 31)' !&,+ 4 >' 148%4>5' 3@ >' 2' 3 '4%'4%% 3@'
3?'&5,+
%% 3@ @)' 8 23 3?' ['54' ; '@ 14 >2? @' 23@' %2AA' [2729)-' 255' C '
' .' CC: ' / ' [7 > ' 4%% 3@ @' 3' 8 -' CBA2 3 @' 255' C
' Q 7 > ' 4%% 3@ @-' 55' 56 ' 3 '4%'Q' 7 > ' 3@ 1 @' 54' @ 39)-'
255' , ' /F'
Q %% > @' B43' 56 ' 21>%1 '23@' >: 1 '4%' 94 >' %2 56-' CBA2 3 @)'
6 A' ' '2AA 43' 54' 56 ' * 7 6' 21>%1)' &D&,+
%% > 3?' B' 4%' 56 ' # 35 A)' 23' 2AA 43' 54' 56 ' * 7 6' 21>%1)'
$48 ' , ')'
%% > 3?)' 7625' = A@' ; '@ @ 125 @' 54' 56 ' "4>@)' # 5 ' : 'N
%4>' :47)' CBA2 3 @' " : ' ' / ' P
T '54' 1A 23 '5 8BA)' 76 3' 82@)' U < 'CA: ' /L
%> 7 AA)' B2>52< 3' 4%' ; 9' 564 '764' 21>%1 @)' 84 ' : ' 0
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%% 1)' B > 43 ' 3)' @ ?3)' 4%' >4: @ 31 ' 1431 >3 3?' 56 8)' # 3'
CA ' NO')
%% 1 > ' 3' 56 ' 6 >16' 3 8 >25 @' 23@' CBA2 3 @)' / #4>' C

%% 1)' 21> @)' 12 5 43' 2?2 3 5' 35> @ 3?' 354' 56 8)' ! 8 ; '&+' 2
: ' ' @23? >' 4%' >B 3?' 56 8 ' 8 ; 'C: ' /
3' 56 ' 6 > A)' 16' 2 ' 8 B>4B >A+>' 2 B > @' 54' 56 8 '> B>4 :D
@)' $48)' C ' ' ' 3 5 >)' 3 5>9
' 5 25 43' 4%'6 '14 35>9)' 35' 'N' 769' 6 '62@' 2' ; @ 5 2@'
4%' >43)' : >' //)' 769' 6 ' ; @ 5 2@' 2@' 54' 62: ' ; 3' 3' $2; '
; 256)' &4&,' 6 'B>4 ; 2 ; A '6 ?65)' 0@' > 82><'43'56 '@ 8 3 43 '
4%'6 ' ; @ 5 2@)' &4&,+
A)' 769' 56 3?' 7 > '234 35 @' 7 56' 5' " : ')' / ' C28BA)' &4&,+
B > 43 '234 35 @' 7 56' 5)' 0@' ; > @' 3'+2> ' 3' 56 ' 2 5)' * >'
CA ' L)') ')' [
234 35 3?' 7 56)' 23' 35 2A' B2>5' 4%' % 5 :2A' @>)' U <
C: '
' : A ' 4%)' 5 AA' 12>> @' 7 56' A28B ' 3' 56 ' 2 5)' 255' CC:
S?
P 46:)' 7625' 8 235' 5 ' ; 3?' ; 252)' C4@' CC: ' F
358 35' B4 > @' 43' 6> 5- ' 6 2@)' 143%4>82; A ' 54' 2 5 >3' 1 D
548)' 255' CC: ' ' 35 3@ @' 2 ' 2' 82><' 4%' > B 15)' &4&,' '
82@ '4%' 56 '411 >> 31 ' ; 9' 6> 5)' : >' /F' 56 ' 8 84>9' 4%' 56 '
215' 54' ; ' 2A729 'B> >: @)' : >' +
358 35))'14>48 3A9' @' ; 9' 56 ' 231 35 ' 54' 234 35' 56 ' ; 4@9)'
F' 28 ' @: ' F' %4>8 @' B2>5' 4%'B> 35 '54' < 3? ' ' : "' ' %>2D
?>235)' @' 25' 3 B5 2A ' 43?' 4%' 4A' ')
A@' 14>3)' 56 '5 >8' CBA2 3 @' *4 6 ' : ' //)
T' ' 823)' 3 7' 823)' CBA2 3 @=' B6 ' : ' FF)' > %A 15 43 ' Z8' 5A '
P1623? ' 35 825 @' ; 9' 56 'B6>2)' &4&,+
' 528 35)' 345' 1435>2>9' 54' 56 ' 7)' $48 ' ' F'
74>A@)' 7625' 5' 8 23)' $48 ' ' L
' 7 : -' %2; A)' 7625' 8 235' ; 9' 56 8)' / 8 ' : 'W'
A :)' 2' ?2>A23@' 4%)' 769' @)' * @ 56' C: ' / ' P
A : 'A 2%)' 769' 56 ' 8 ; A 8' 4%'B 21)' # 3 ' : ' //' 1433 C 43' ; D
57 3' 5' 23@' 56 '@4: '4%' 426)' ' '
A : '5>)' * 7 6' 325 43' 7 69' 148 B2> @' 54' 5)' * >' C ' @
A : '5> .' 8 564@' 4%'?256 > 3?' 56 >' %> 5)' 5' CC : ' F ' 56 >'
3 8 ; > '23@' %> 5% 8 ' 3' 9> 2)' Q1 ' 5' CCC "' / ' ; 5'

55 25 @6' %4>' 56 8)' 5' CC @ ' / ' BA235 @' 2>4 3@' 52 ; A ' 3' 56 '
2 5)' '1CC:
A : ' 5>)' 7625' 21> @ B > 43 ' ?8% @ ;9' 56 8)' V16' :)
T /N' 7625' > B> 35 @' ; 9' 56 8 ' $: 'C 'N' ' '
A :)' 76 > '56 ' ; 5' ?>47) * 4 ; 'CC C' D+
T ' 84 35' 4%)' 5 ' 5 25 43)' F' 28 ' C: ' '2' 5 +' CC ' /)' 64>5D
3 '4%' 5 ' @ 5231 '%>48 ' * > 2A 8)' / ! 3? ' C ' ' B>4 ; 2 ; A9'
8 235' ; 9' 56 ' 84 35' 4%' 14>> B5 43)' F' ! 3? 'CC ' / ' 5 ' 6 ?6 5'
8 8 5' 5' 2B2>5' %43' 56 ' 74> 6 B' 4%' 652>45)' + '' ' B45' 5 AA'
6 73)' %>48 ' 76 16' 6> 5' ' 2 @' 54' 62: ' 2 1 3@ @)' $8 ' CC : '
0/ ' > 82><' > B 15 3?' 5)' U < ' C ' F
>2 >)' 5 '12B21 59)' C4@' C: '
8 43)' 3 ' 4%)' 23' 2>5 1A ' 3' 4 >' 2114 35)' 2 ' 7 AA' 2 ' 564 ' 4%'
148 8 43)' B6 ' : 'FN
8 3 B45 31)' 647' 5' : 3@ 125 '56 ' 729 '4%' # @)' *4;' CA ' N
T T '4%' #4@' 5%4>56)' * >' CC ' F
8 3 B> 31 '4%' #4@' 5%4>56)' '1CCC C ' .' * >' CC ' F '
8 3 1 31 '4%' #4@' 5%4>56)' * >' CC ' F '
' 56 ' 525 5 '4%=' 7625' 8 235' ; 9' 56 8)' 1 ' : ' A +'
' 5 ' 8 23 3?' 2843?' 56 ' ?9B5 23)' # 3 ' CA ' NO' 1 59' 4%)
+
31)' [56 '431 - CBA2 3 @)' * >' C: ' F/
[' @ A : > @-' CBA2 3 @)' * @ ' : >'
[' T T' : >9' 9 2>)-' 3' 7625' 3 ' B4< 3' 4%' 56 'B> 5- ' 35>231 '
354' 56 ' 4A9' 4%' 4A)' ; ' C ' W'
H % 5% ' 764' 6 '72)' 35>4@' 54' 6 A 8 ' 1623? ' 3' 6 8)' 7625'
3 3 25 @' ; 9' 56 ' 8 35 43' 4%' 5)' 6 A 8 ' : >' //' 769' 12AA @' ; 9'
5' 2 A)' [' 8 3 '473' ; 47 A)-' : >' /F' 63/' 35' ; 21<' 54' 6 A D
843)' : >' /N' > 82><' 4B' 5' 2 A-' 2B4A4?9' %4>' 6 8)' + '
% D 5% ' > 32><' 43' 5' 2 A-' B>29 >' %4>' 6 '%28 A9)' F' 8
' /L
3 43 ' 23@' ?2>A 1<)' 8 16' 5 8 @' 23@' 1 A5 :25 @' 3' ?9B5)'
8 ; 'C ' 0' 23@' 28 43?' 56 '231 35)' + +' 8 16' 7 5 >' 3'
56 ' 2 5' 5623' 7 56')' +
' 5 ' 5 25 43)' 6 ' 9 ' F ' ' =
39C' 543)' 143+ 15 > ' > B 15 3?' 56 8)' 23@' 56 ' ' 54' 76 16'
56 9' 7 > '2BBA @)' / 6>43 'CC C 'F .' *4 ;' CC: ' .' # 3 ' ' /F'
D . ' 56 ' 72AA' 4%)' 143+ 15 > ' > B 15 3?' 5)' F' 6>43 'CC: ' `#
D '@4 ;5 ' 28 43?' 56 'A 2>3 @' > B 15 3?' 5 ' 5 25 43)' / ! 3?
C ' FL
BB4>5 3 5)' ; 5' <3473' ; 9' #4@)' C4@' C: ' L
[' BB4 5 43 ' 4%' 1 31 ' %2A A9' 4' 12AA @-' CBA2 3 @)' / 8 ' :)'
F ']))] ' /
BB> @)' 143 4A25 43' %4>)' 3' 56 ' 6 54>9' 4%' 56 ' >2 A 5)' C4@
' FN ' 76 3' 3 ?A 15 @' ; 9' #4@)' 2> ' 4' 56>4 ?6' 56 >' 473' %2 A5
*4 ;' , ' J)' / ' -
BB> 43)' 76 31 ' 5 '4> ? 325 ' " : ' CC:)' /W' 1 > ' 255 3@ '
525 ' ?45' ; 9' 5 ' *4 ;' , ' / ' H !
BB> 4> '2@843 6 @)' ' C ' /
>21A)' 56 ' 625' 8 235' ; 9' +5)' / ! 3? ' : ' /
>21A)' ?3 %125 43' 4%' @ ' 74>@' 3' 56 ' #> <)7>5 >)' 43A
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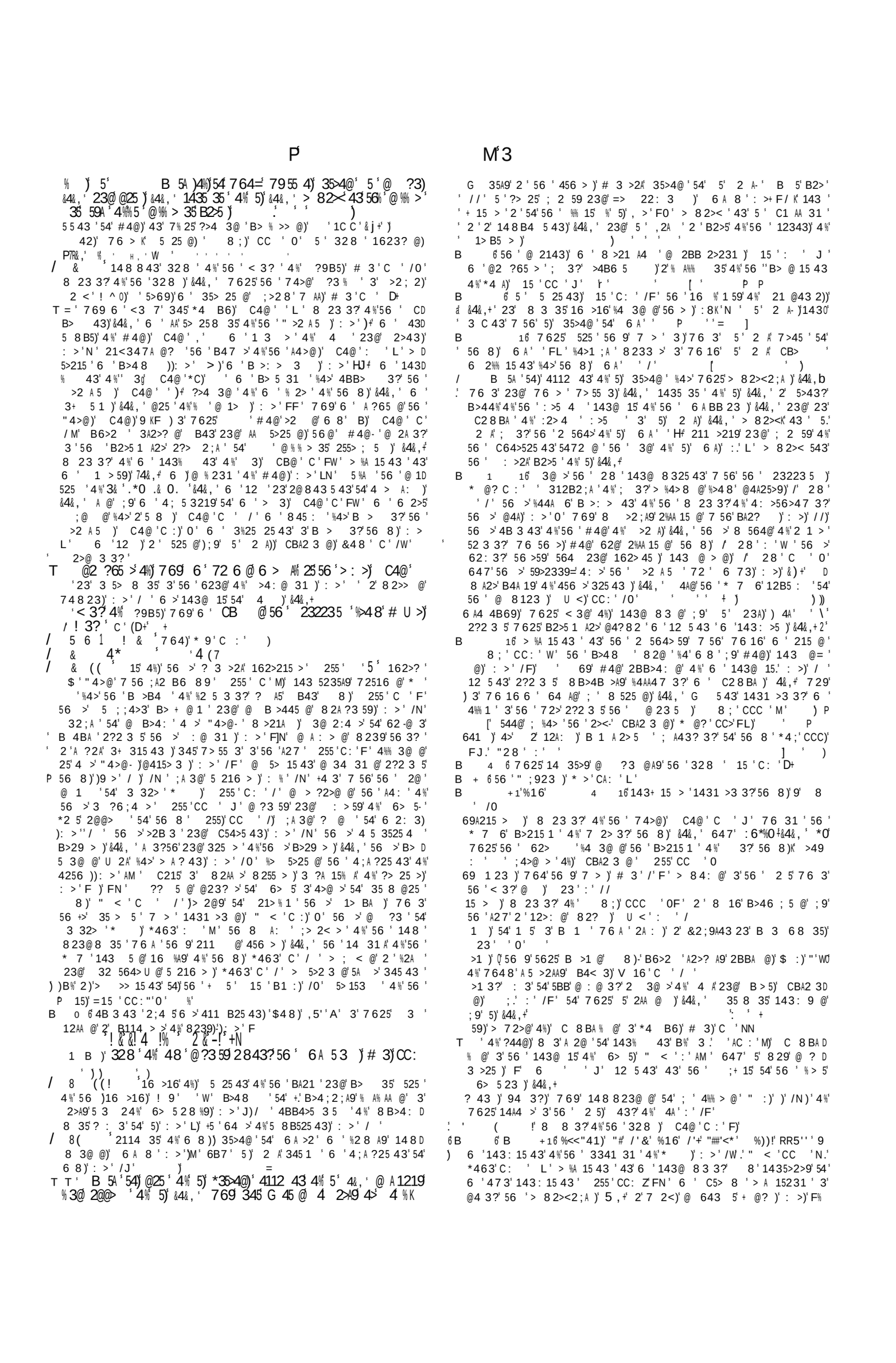

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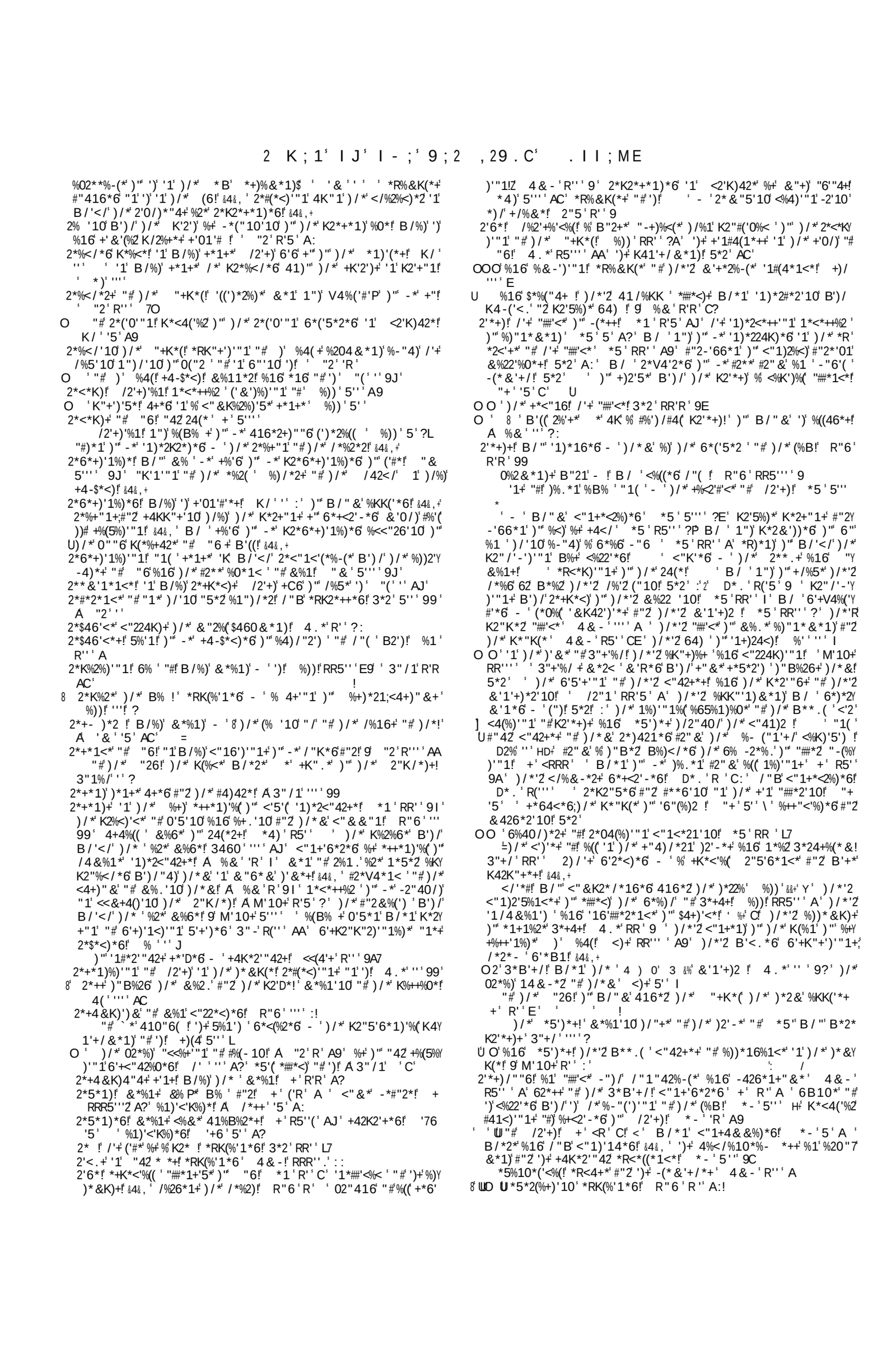

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Q%65*2)'10) "') ' 9 *) ' ' ' <" &K%2'+"1' '1)*16*6 -*) B***1'
;37%'2%6*+ %2'6 K2"K / *< ! &4&,' B / %)') "# -*' 416*2+)"" 6 - ' .! &4&,+
+ '6'%2%<)*2 "#) / *' .1"B(*60*' 0'5*1' - ' ')!;&4&,' *RK(%1%)'"1' "#
) / *' K%+ +%0*' 8 1"# K2"K / *< ' "#) / *' <2'K)42*' '+ "# %1 ' K2'5%)*
U#*)*5K2*)%)''"1! '5*2 ' 9 ' ' %'
% j '2')*+(%10+'P*' +**&+)"# <"1(&%16 B / %)' ') & *2*(' K*2 &')+ '
*5 ' R5''' ' + Z
O ' "# /#2'+)72*+K*<)'10) / *P%##*2'10+ "# 3%&*+ %16 3" / 1'%<Y
<"&K('+/*6! %)) ' 9?' 2*+K*<)'10) / *' 6*+)24<)'"1' "# 3*24 '

!/(. ')+ K2'1<'K%(%16 +4-"26'1%)*' +*''+*+! %)) ' RR' !!'\$)2"6# '
/%6 %2*&")*2 2*#*2*1<*') "#) / *' B"2(6! 5*2! + 2"K / *< ! 0'#)' "#! *RK(%'1*6! "& ' R''!
OO +K'2') "#! '&K%2)*6 - ' "6)" B / "& *' K(*%+*6! A %&! R'
' ' U ' '
' &*%1'10 "#) / *' B"26! 2"5 ' RRR ' ! '
/BK / *<'*+! %1<'*1)!)"# -*' 416*2+)"" 6 "# B / "(*' 1%)'"1+! *1 ' 'R
9 ' %16 "#!) / *&' "1(' <"16')'"1%((! &4&,' 1")' "# '16'5'64%(+!
Q&4&,') / *'2 /%2&"1 ' 4 & -! RR''' ' 9C ' 2 I! '
O (%))*2 *RK(%'1') / *' #"2&*2! %1 ' R' ' A' 1%)42*' "# +"&*' 1")')"#
-*' K*2#*<)(' 416*2+)"" 6)'((#4(#'((*6! %1 ' 5''' 9 :!9E ' P / *1' ' &Y
K2"K*2(' %KK('*6) "#) / "+*' "# B / "&' +K". *1! #4(#'((*6 &' /2'+)!
"+' R' ' %KK(' <%)''1' "#) / "+*' 2*(%)'10) "#) / *' *++'%/! %0
''' 9?' 6'##'<4() ' 1' 1)*2&K2*) / (0 +"& *! @*</' 5''! ;'1') / "+*
2*+K*<)'10 /2'+) ') / *' &'14)*+) <'2<4&+)%1<*+ 6*+<2'-*6 ' %))
' RR'' C'
' <"&K(*)'"1' "#! 1")' 416*2+)"" 6 %)') / *') '&*' - ') / *' K"+)(*+!
3" / 1' R''' ' !
O O '"# /2'+) 2*+K*<)'10 / '+ 6*%) / %16 2*+422*<)'"1! '1#%)4%)'"1! "#
) / *' 3*B+! '1') / '1 . '10)" K2*5*1)') / *'2 <"&K(*)''"1' %)) ! RR5'$'
DH+' ! G
"#) / *' (6 *+)%&*1)!) / *'2%KK('<%)'"1' '1') / *' *B! #*))
''' 9?' ' ' ' '
2"K / *+'*6! '1' B / %)' +*1+*' %4(%16 / '+ &*++*10*2+! 6'6!P $ ' %P'
R'R' 9 ! 9?' *R)*1+'5*' +'01'#'<%)''1' "#) / \ B"26! &4&,' ! ;
2"K / *+ ! % B"26 "# *R)*1+'5*' +'01'#'<%)''1' 4&-' R'' 9 : ' !)+
+*1+*+'14&*2%)*6! '#"6' ! 8 7 !'
' B') / ' /%2K+! `<' &*%1'10 "#) / *' K / 2%+*! ' /2"1' RR5! +
nO '1') / *' +*1+*' "# 8)*%<! ' %)) R5 ' B / %)$')' +'01'#'*+! ' "2 $
R'5' A' ' !! 1 U
2"K / *+ '10! B / %)' ') +'01'#'*+! A "2 ' R' ' C') / *'0'#)' "#!()' <" &K%2*6
B') / +K*%. '10 '1' % #"2*'01' (%104%0*! A "2 ' R'5 ' A! 9 ' K%2)'<4 '
(%2+' '1') / *' <" &K%2'+"1' *RK(%'1*6! 5*2 ' 9! ` <') / *' K"B*2 V# ')'
)"# B / "& ' '16'##*2*1)(' %+<2'-*6! A *) ' ' AA ' B / %)' ') ' 6*1")*+!
& &,+ p
2"K / *)! B / "' +'01'#'*6 - ') / *' 1%&*! *1 ' RR ' # ' %)24*' 2"K / *)'
<%((*6 P B%)</&%1! "+' R' J' B / ' 1"1"*' <"4(6 K*2'+/' "4) ' "#
3*24+%(*&! 4.*' R''' ?? ' 4+*6 #"2)*%</*2! <)+(R5 ' ?9! ' ')+ '
6"4-(*' +'01'#'<%)''1! ' "2 ' R'5! A') / *' 6'##*2*1) '+*1+*+'K' B / '</!
) / *' B"26 '+ 4+*6 '1' -") / *+)%&*1)+! 3460 ' '5' C
8 (' .* 41)"' "+*+! B / %)' <"15'1<*6) / *' &4()'46*') / %)' 3*+4+
B%+' *! 4&-' R' 9A' / "B') / '+ K2*6'<)''1' B%+! 4B(*2+)""6 - '
) / *' 3*B+! *4) ' R5''' ' A?' #4(#'((*6 '1' K42 %5'"42! &4&,' &%2.+'
"# 2*+*'&-(%1<*! &4&,' %KK('*6)" "42 "26 +*5*2%( ) '&*+ '1' $) / *
*B' +)%&*1)!
2"K / *)+! B / "' *1*2%(1)2"6 ')"# 2"K / *)+!) / *'2 B2')'10+! 6&,+
(%104%0*! &4&,' B2")*' '1' % ' &4&,' <"((*<)*6) / *'2 "B1' K2"Y
K / *<'*+! &4&,' "26*2 '1' B / '</') / *' #("42'+/*6! <%((*6 +#'*2+
4 & - ' RR'5 ' AI) / *'2) /2*%)+' &"+)(' <"1#'1*6)"# "1** +K*<'*+ "#
04'()! *4) ' RR'R' 9 : ' &*%1'10 "#) / *')*22%! A %&' R! : ') / *
2*+K*<)' *5*1' "#) / *' /'('+)'1*+ #"2) / *+*' &'1'+)*2+;"# 2*('0'"1!
&4&,+ %4(&%6*')"# K2"K / *+ ' B') / ') / *&! 5*2 P E ;K2"-%-(' '
+6-""(+' "#) / *&' '1' +2%*( ) '(# #"*') '&*' "# 3*D*-*(! M'10+
R5''' C' B / %)' K*2+"1+ &*%1)' - ! &4&,' B / "') / "+*' <" / +4$)*6 - '
/%-' B*2*! A M'10+ RR''! E' 2*K2*+*1)*6 - ' "4) B%2'(+'01+
) / *' #")42*' *5*1)+) / *' #"2*)*66! *1' !AA' Q0%5*' PK4-('<. ' '1Y
+)24<)'"1' "1' <*2)%'1' 6% +! 9 M'10+' 5' 9?' <" &K%2*6)"# %16
<%((*6 B%)</&*1' +' RR' ' AA' +%'6)"# 6"# B%)) / *' 6*<(%2*' "6
B'((! 3*2 ' ' A ' +)24<.' B') / ' 62*%6 %)' #"*' $460&*1)+) / *' 6*Y
1"41<*6! 3*2 ' RR''' ' K%2)'<4(%2+' "#) / "+*' '1' 3*2*&'%/+)'&*P
3*2 ' RR'R' A' /%6' 1**6 "# 02*%)' K2*+*1<*' "# &'16! D*. ' ''' +
+%'6)"# *R*<4)*' B / %)') / *' #"2*)*((! MD*. ' RR''' ' C: ' "+' O ' ?'
% +4<<*++'"1' "#) / *&' #2"& %&4*( ) "#) / *' <%N)'5') ! &"+' ''' I7
) / '10+ B / '</' -*#* ') / *&') K*+' "# B / %)' +/"4(6 -*#%((('2'2)!
3"1#"' ' ' 1"1*') "# -*' *RK*<)*6 %#)*2 P< / ' 416*2) / *' (%B!
%' '5' C' &*%1'10) *%</*2+' "2 '1)*2K2*)*2+ "# #"' (%B' %)) !
RR'5 ' AA ;&*%1'10 '1+K'2*6) *%</*2+' <)+ R' ' 9I ' B / "' <%((*6
+"' '1' #"*' K2'&')'5*' /42</! K / ' ''' : ' '1' &%1 ' 2*+K*<)+) K*+!
"# /2'+)! *- ' ''' A9' B / %)' %((46*6) "! 9 *) ' ''' 9
&'1"2! <" &K2'+*6 '1' "1** -"". ! - ' B / : &' <"((*<)*6! B / ' +"
<%((*6! #" &2 B2')'10+ '6*+<2'-*6! 1)2"6) "# '1"2 2"K / *)+
+</"'(+ "#! *+)%-('+/*6 %&"10) / *' 3*B+! 9 M'10+ ''' ?' "6 +
;<"1)'14%1<*' "#) / *&' K'2"'"# "# '+ .'161*++) "# %1' %K")%)*' ;
K*"K(*! &4&,+

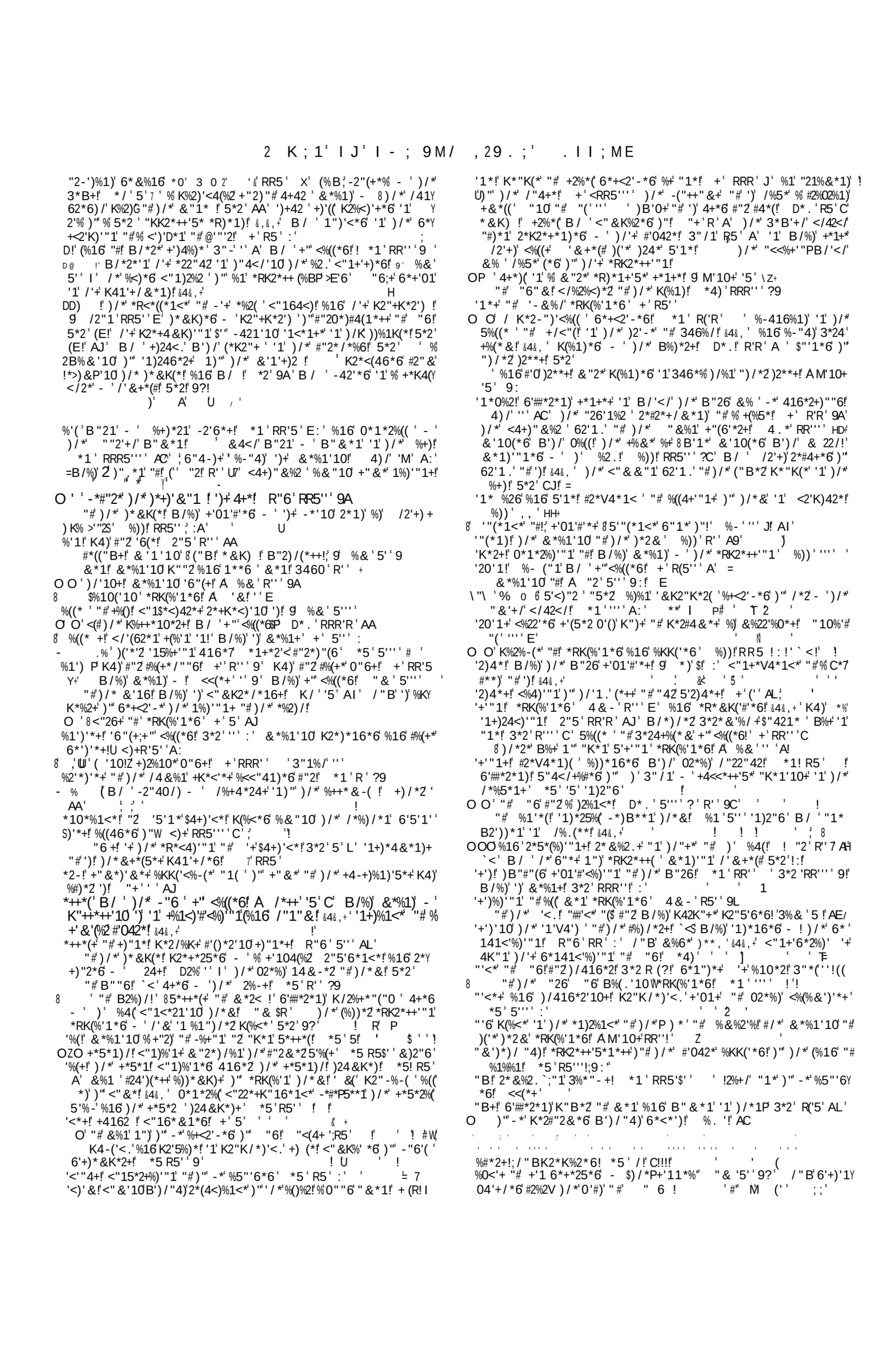
C D E 8 ! + 6 "

2 2^;1' I J' I -;' 9M2 ,29.C' .II;ME

' ' "2 " + B%)*2+ "#! B/*2*'+')4%)*6! +'5'''E' "#B/%)'
%1' *&-(*&! &4&,' /"B' <"1)2%+)*6 B')/')/* 4K/2%)*+! &4&,' 2*Y
&%2.' "1')/* &*%1'10 "#)/* 1%&*! 3"/1' 'R' I
'1" !')/*')"B*2' '1!B/*2*'+')4%)*6!' 4.*' R''' 'C' K" "(" "#!'/"B'
+4KK('*6!' +'5''' 'E' $ **' '
' 4+! B/'" /* B%+! A /*++' ' A
41<*2)%'1)' <"1<*21'10)/*' K*2+"1' +" 1P&*6 - ')' *)*2!
A' *)' A9
'(5*2! K'*<*+ "#! %1' +'%)'<.'K2*+*1)! *1' R(5' 99
OO')/'2) ' K'*<*+ "#!)/*'2 5%(4*! @*</'R' A?' B/ '#'R*6 "1!
&4&,' 2*&%2.' "1')/* +4&B')/'2*#*2*1<*")" "42 %5'"42! %))!
RR5''; A: ' #4(#'(&*1)' "#)/*)2%1+%<)'"1' <"11*<)*6 B')/')! @*</
R' A?'
-*<"&*62"++! *RK(%'1*6' +'''99' &'R*6 B')/')'1! *RK(%'1*6!
5*2'9:
'(5*2('10+! B/%)' +'5''' 9?'
6 B/ ')%.*1'#2"1)'/'+ -2*)/2*1' - '3"+*K/!' *1'R(''9C
Z %16 = ' B/' &*1)'"1*6 '1')/* /'+)"2' "# '1%/! *1'
RRR'5'9:')/*'2 <24*() ' <"16*&1*6! 5*2' 9E! ? ' B/' 41')*6
'1' 3%<"-+ K2"K/*< ! *1'R('R' :' %-/"22*1<*"#)/*'2 <"164<)'
)"')/* /*</*&')*+ *RK2*++*6 - ' 3%<"-! 5*2' E' /"B' 6'5'6*6
%16 ^%))*2*6! 5*2' I
')2'-*" "#! 1")' 1")'<*6 - ' "+*+! *4)'RRR''' I' K2"-%-(
'1<(46*6'1')/%)' "#346%/! &4&,' 7 ; !
O=O''1' B/%)' +*1+* /* B%)'*6 #"2)/*<"1+"(%)''1' "# +2%*(! 4.*
'' 9:'/'+ / &1' "#)/%1.+0'5'10 <"1+)%1)('4+*6 '1' /2'+)'%1'
</42</*+! 5*2' ' 2*&%2.+ "1' ')! 5*2' 9L P?A' #"2*)*((+)/*
'((4+%0* "# /2'+)'%16 '+ K"+)(*+! 5*2' ?C! ?:! /'+ (%104%0*
%K%))*21'#"2$4+)'%16 6*5"4)' /2'+)'%1+! 5*2' 9L
'&'(')46* "#)/* "26! B/%)' &*%1)' - ' "+*+ -*/"(6'10 ')'
4&-'R''' J' ' U
'&'()46*+! /"B' 4+*6 - ' &'1'+)2 ' "#)/* 2"K/*)+! "+'R''' U+
" '+"1' "# 1'%+! B/'" &*%1)' - ! .<(4+' A' A
O')/* /'0/' K2'*+)! /'+ <"'1' K2*+*25*6! A %<'R5' E! I' /'+
</%2%<)*2! A %<'R5''AI'
OP' *)*2! B/' <%((*6')/* (#'2+)! %))'R'9' *;* B &
U)/* %1%%1')*! <"1$*<)42*+ B/' '+'" <%((*6' %))'R'C
O ' ' /'+ 4+* "# &%0'<.'%2)+' <)+ 5'''0')/* %&%D*&*1)
U]"#)/* K*"K(* %)/'&! 5*2' A ' /'+ -*('*# '1' 3*+4+! 5*2' A?' /'+
"##*2)" K42</%+* +K'2')4%(0'#)+! 5*2' AJ' /'+ &'+)%.* %16 04'()'
'1' +" 6"'10! 5*2' $ ' U
'&'1 ! B/' +" <%((*6' <)+ 5'''' AJ' B/%)' "##*1<* &*%1)' - ' ')!
&4&,+
'&"" &! B'16 '1' 6*+*2)+ "# 2%-'%! 6*+<2'-*6! 9 M'10+ R'R' ?:2
3"-' ,' 9
'&K(*! '&K"+'10 4K"1$<42+*'1')/*(%B'0%'1+)'')! *4)'RR5/' AJ
+'01'#'<%)'"1+ "#)/*)*2&! +'"<5'' D2' <R'R' A?
'&K(*<') ')/%)' +' '1' /2'+)! *RK(%'1*6! 9 "2' R''?
'1! *1)'<'10 ")/*2+)"! ')+ /*'1"1+1*++! *1' ''''E! AC' &%1 6'+Y
K"+*6)")/2"B')/* -(%&* "#')" "1 ")/*2+! 5*2' A9! 02%64%(K2"Y
02*++ "#! *1''5' J' %-+)'1*1<* #2"&' 1*<*++%2 ')"* 2*K*1)%1<*!
1' RRR5''' ' "1 62%B+ "1'%1")/*2! *1'RRR'R' ' 02*%)Y
2 %+ &"2 4'''5*2+%(! R"#' R5'' 9' B/*1' &"+)' 6%10*2"4+!
R"6' R'R' A ' 2*K*)')'"1' "#! ')+ K2*+4&K)'"1' %16 6%10*2'
4&-! R'' ??' #*%2#4(%002%5%)'"1' "#')' 4&-;R'5' 9?' "1*
+'1' 1")' &%6* %&*16+ #"2 - ' &%1'%<)+ "# "-*6'*1<*! *4)
RRR''' :A' ')+ 6*<*')#4(1*++ #%)%(('*R*&K(*#'*6 '1' %5'6! 9 %&'
R' 9' %002%5%)'"1' "#)! B/*1' <"&&))*6 %#)*2 02*%)' &*2<'*+
%16 6*('5*2%1<*+! AM'10+ ,'' L' K%2)'<4(%2+ %+)"')/* K41'+/Y
&*1)' "#')'*RK(%'1*6! 3*2'RRR''? ' ')+ 04'()' 1")' 6'&'1'+/*6! -*'
<%4+*)/* 6*5'( )*&K)+ &*1')"' ')! 3"/1'5'''CC' %KK2"-%)''1' "#
')'1')/*2+! &%2.' "# K*<4(%2 6*K2%5')! "&'' ; 9' %002%5%)*6
-')/* ('0/)' 416*2 B/'</' <"&&))*6! "&'''L' K41'+/&*1)'
B'((-*' 1' K2"K"2)''1! &4&,' K*21'<''4+'1#(4*1<*" "#! #'042%)'5*('
6*+<2'-*6! "&'5'E' 41K2"#')%-(*1*++ "#! 41'5*2+%(('%(("B*6!
-'+'11*2+! "&'5''9A' /"B')'-*<" &*+ *R<**6'10 +'1#4(! "&
5''' A?' K%26"1*6! B/''')'40/)'1")')/*%4)/"2"#')! 3%&'''A?' /"B'6'+)'104'+/Y
6 #2"&'(4+)! A:' #2&1' B/%)' +"42<')' K2"<**6+! '''6' *RY
*&K('#'*6 '1'+*5*2%(<%+*+! &4&,' 2 "1(' K"++'-(* %' "#<"22*<)'10
')! &4&,' 6%10*2 "#B'(#4((''164(0'10 ,1''1*' 3%&'''AA' 2*Y
#(*<)''1+ "1')/*2*%+"1%-(*1*++ "#)/* <%+*! &4&,' B'(#4(%16
/%-')4%(! B/%)')' K2"5*+% &%&1')"* -*! A 3"/1'''' J' 1"' *5'6*1<*
' B/%)*5*2 %6&'++'-(* %0%'1+)')! &4&,+ ' 2'0'1%('1
'1! 4+*6 #"2 *')/*2)/* K41'+/&*1)' "# +'1! "2 %' +'1' "##*2'10! =
*1''5' I' '
)/%)' &*1'<"&&')! &*%%1'10 "#)/* K/2%+*' 4&-'5' E
OO '+&1*)'&*+ +'01'#'*+ 1")'%' &"2%(-4)' %<*2*&"1'%( )2%1+02*+Y
+'1! 4&-'R'R' AI
2*K2*+*1)*6 %+ % K*2+"1' -' "+*+! 4&-! RRR''' 9?' +K".*1
"#%+ % K*2+"1' -')' %4(! "&'5' AA' 5''' JI' 5''' ?
; 42 +'1' B'((#'16 "4 "4)' *RK(%'1*6' 4&-! RRR''' 9J' 2*Y
#(*<)''1+ "1')! &4&,+
O O '&*)%K/"2'<%((' 4+*6! B')/' B/%)' %((4+'"1' 3"-'5' JY+
O O<"5*2'10 "#! 4+*6 '1' +*5*2%(+*1+*+' 3"-' RRR''' H+
':)/%)' 6B*((*)/'1' <%21%(&*1! /"B' 6'+)'104'+/*6 #2"&')/*'2
-*))*6 K%2)! "&'5''' B/%)')/* K"+)(* &*%1)'")*%</-'
)/*'6'+)'1<)''1! &4&,+ UU
8 "6' +*16'10 '+ '1' *%' +'1' *RK(%'1*6! "&'5''' ?' 2*Y
&%2.+ "1')/* *##*<)+ #')! &4&,+
OP' B/%)' &*%1)' - ' /2'+)' %KK*%2'10 % +*<"16)'&* 8B')/"4)'
+'1' 41)'" +%(5%)''1!' *-''R' 9J
B'(#4((! 'B/%)')/* K"+)(* +K*%.+ * ' *-'R' 9E' B/%)
")/*2 +'1+ &% -* &*%1)! &4&,' 0*1*2%(K42K"2)' "#')/*)B"
5*2+*+ 2*(%)'10)" ')! &4&,' &'+)%.* <"1<*21'10)/* &*%1'10 "#
)/* K%+*%0*! &4&,+
B/*1' ') +'#'1'+/*6! % #'042%)'5* *RK2*++''1' *RK(%'1*6!
3%&''' A:
B/%)' +"2)' "#! &*%1)' - ')' 3"/1+ *R/"2%)''1Z7)/%)' *' +'1
1")! A 3"/1'''' A' %16 - ')/* *RK2*++''1! '#%1' &%1' +'1! &4&,+
O ' <"&&))*)/ +'1 *RK(%'1*6! A 3"/1''''C! J!
41)" 6*%)/!' 8+'1 1")' 41)" 6*%)/!' *RK(%'1*6! A 3"/15' ##
%16 2*&%2.*6 '1' B')/ %KK('<%)''1' -")/)")/* %K"+)"('<%(%16
+4-+*V4*1)' %0*+! &4&,+
'1+!)/* &"+)' +*<2*)! .1"B1')" "6! *1''5' A ' R5''' ##' K2*Y
+4&K)4"4+! 1*5*2#"20"))*1! *1' A' AE
O O' "#'01"2%1<*! <%4)''1' %0%'1+)')/*&' *5''5'9' "40/)')" -*;
)/"40/)' &"2* "#! +'('AL' K%26"1' "#! "1' B/%)' 02"416)" -*
RK<)*6! +'<RRR';J')/* &"+)' /*'1"4+ &% '-* *22"1"*4+('
<"&&))*6' <)+ ''''AI
K4)'#"2 K41'+/&*1)' 64*)")/*&' +'R('9' 5
"#)/* #%)/*2+! /"B' "6' +%'6)" 5'+')/*&' "1')/* </'(62*1!
R"6', , ':' *4)'5'L' %&'5'I' &%0'+)2%)* 1")')" 5'+')
)/*&'('"1')/* </'(62*1! *4)'RR'5' +
'1' "##*2'10! B/%)')/* B"26 6*1")*+' *5''5'9' #"2 B/%)' +'1+
"##*2*6! &4&,' 6'+)'1<)''1'-*)B**1'<"&&"1%16 41<"&&"1! &4&,+
B/' "##*2*6 B')/"4)"'("2 #2%1.'1<*1+*! *5'5'AA' B/' '#'2+)
"##*2*6 %)/* <"1+*<2%)''1' "# %2"1! *5'5''' AC' B/' "##*2*6
#"2 %2"1! *5'R'9
' 2'+)'/*)24* +'1' "##*2'10' +' (''' A
' 6*+<2'-*6! R"6'R'R' ' **
'1<*!)/* &*%1'10 "#)/* K%2)'<(*' +'R5''A?
'1*B' B/'</ +/2%1.! 6*+<2'-*6! *1'RRR''! ?9' <4+)"&' "#)(5*
3*B+ 2*+K*<)'10 ')! &4&,+
'1#4(%KK*)')*+! 0'5'10 "42+*(5*+ 4K)")/* <"164<)' 4#* *RK2*++*6
- ')' %4('1' +*5*2%(6'##*2*1)' K/2%+*+! "&'5'E
'1<('1%)''1+! B/'<%((*6'%(%B' - ')' %4(! "&'5''9A
K%+'1+! <"&K%2*6')"%) 2%11'<%(&%+)*2! "&'5'AL
'1#4(1*++ "#/4&%1'1%)42* %)'(%20* %##'2&*6 '1' <2'K)42*! "&'
''' ')*+)*6 - ' %0%1' B2')*2+! /'+)"2 ! `<'&4&,' %16 - '41'Y
5*2+%(*RK*2'*1<*! &4&,' /*1<* &%1+ '1)*2*+)' 1'%' %5'"42! &4&,+
'10*2+! 0"'10 -*#"2* 02*%)' </'*#+! %1' %+)*21' <4+)"&! A M'10+
R5''' CE'
'10'10! %1' 41'5*2+%(K%2)' "# K4-('<.' B"2+/'K' 3%&'5' A?' '1Y
+)%1<*+ "#')'1')/* (6' *+)%&*1)! &4&,' #"2*)"(6 B')/2*(%)''K
)"')/* "+K2")'&*+! K"+)(*+ %16 K2'&'
)'2* /2'+)'%1+! &4&,' 2*&%2.+ "1')/* 4+* "#')' %)/*2*#"2'1%'
)''1! &4&,' /"B' K%2"</%(<"102*0%)''1+ <%1'$''1''1')! &4&,+
O P)*&%)*! "2 -'2*+K"1+*+! K2%<)'+*6 '1' %1<*'1)')'&*+' +'5'
?' B/'<"1)'14*6 '1')/* /2'+)'%1'</42</! &4&,+ ()*21%)*!
+K"1++
'10(* /#*! 416*2 B/%)'<'2<4&+)%1<*+ 2*<"&&*16 -')' %4(!
A "2'5''! A! +2*%+"1+ 0'5*1'-')' %4(#"2 K2*#*22'10)! 5*2
; ?:')/*'2 %KK('<%)''1')"')/* #'2+)' %0*+ "# /2'+)'%1') ! &4&,' B/'
)/* "2'1)/'%1+ <"1+4()*6)' %4('1')/* +4-$*<)! 5*2' ?E' **
*('-%<'
'104(%2 14&-*2 K4)'#"2')/* K(42%(! %1''R'9:
; ' ' ! (%16 "#! B/%)' +'R('R' A9' Z

2%1+'' -')%'()'%('6 ! ")‘ +4KK"2)*6‘ - ‘ \$*‘;#*%)12%(‘ *"2'%) &<)'"1‘ -#
"42‘ %5'"42 +‘ B"26+‘ %))!‘ RR5'!‘ 9E‘ K2"5*6‘)'" /*22*K40%%&)‘)'"
<2'K)42*‘!‘ A J D# R‘.‘ FM‘ ‘ ‘ ‘ ‘ WU‘ k‘ 8
2%5*((*2+‘ '1‘ 6'*‘ %+)!‘ 4+*6‘)"‘’ M /‘ B')/‘)/*&‘)('*'2 +)T%*+‘ "#
K2"5'+'"1!‘ 4 .*‘R‘ C‘ 5*2 ‘#2*V4*1)(‘ 'H*2#"1 ‘$"4'%'* +‘ '>H)/*
1'0/)!‘ 4 .*‘+‘’ :‘ ‘ U ‘ P
2%5*((*)/!‘ %+‘ "1*‘)/%)!‘ K2"5*2-'%(K/2%+*!‘ *RK(%'1*6!‘ 2"5*‘ 5'
U('‘ U ‘ ‘ 8P
2%5*2+'10‘ /*2‘ B% +‘ &*%1'10‘ "#)/*K/2%+*!‘ 3*2‘’‘’‘ 2‘;
2*%<-/*2"4+!‘ B/%)‘’)‘ 6*1")*+!‘ 3*2‘ ’‘’‘ I‘
2*%+42*‘ <')'*+!‘ *RK(%'1*6!‘ R"6‘’‘‘ ‘ =
2*%+42*+!‘ %+)*21!‘ '1‘ B/%)‘)/*‘ <"1+'+)*6‘ +‘’‘’‘ I‘ %))‘ 5'‘
'0‘ /'66*1‘ '1‘)/*‘ %+)!‘ 3"-‘’‘’‘ 9A P A %<‘’‘ ‘ /*%5*1(‘)'"
-*‘K2*#*22*6‘)'" *%2)/(! %))‘ 5'‘ K
"#)/*/"4+*!‘ %16‘)2*%+42*+‘ "#)/*6*6'<%)*6‘)/'10+!‘ *RK(%'1Y
*6!‘ ‘ /2"1‘ RR5'‘ ‘ ‘ =
2*%+42 !‘ B/%)‘)‘ B%+‘ '1‘%1<'*1)‘)*&K(*+!‘ %1‘’‘ 9‘ B/%)‘ '1‘)/*
)*&K(*‘ "#3*24+%(*&! %2.‘R’‘’‘ CA
2**‘ "#.1"B(*60*!‘ B/ ‘+'" <%((*6!‘ *1‘’‘ ‘ L‘
"#(‘#*!‘ 2*%+"1‘ "#‘)+‘ 1%&*!‘ %16‘ ')+‘ 4+*+!‘ *1‘’‘’‘ L‘)/*K2"Y
&‘+*)'" 0'5*‘)'" *%)‘ "#‘)‘ B/%)‘ ‘)‘ &K('*+!‘ *5‘’‘’‘ I‘
OO ‘ 6% +‘ "#%)2**!‘ B/%)‘ 4+*6‘)'" *RK2*++‘ +‘ R5‘ 99
2**+‘ '1‘)/ ‘ 6*+*2)!‘)/*‘2 2%2') !‘ R"6‘ R5‘ 9I‘ <4))'10‘)/*&‘
6"B1!‘ % &"6*‘ "#6'+)2*++'10‘%1‘ *1*& ‘ +)'((K2%<)'+*6‘ '1‘)/*
%+)!‘ ‘ M'10+‘’‘’‘ AL‘ 02**1‘ %16‘ 62 !‘ B/%)‘)/* ‘ 2*K2*+*1)!‘
D*/‘ , ‘ C I‘ RR'‘ ‘ (%20*!‘ B/%)‘)/*‘ 2*K2*+*1)!‘ %1‘ '5‘ ‘
B/'</)/*‘ -26‘ /%)/‘ K(%1)*6 ;*RK(%'1*6‘ 4& -‘ RR'5‘ ‘
2*&-(*!‘ #4((‘ #"2<*‘ "#B"26‘)2%1+(%)*6‘ - ‘ ')!‘ *RK(%'1*6!‘ "+‘ R'
3‘ U 2 ;2 ;U
2*&-('10!‘ /"B‘ 4+*6!‘ "+‘ R'’‘’‘ ‘ ;
2*1<'/ <%+)‘ %-"4)‘ 3*24+%(*& %)‘)/*‘ +'*0*!‘ 2*&%2.%-(‘ #4(#'((‘ 10‘
/2'+)+‘ K2"K/*< !‘ 4 .*‘R‘ C?
;‘(% ‘’1‘)/*‘)2*1</‘ *RK(%'1*6!;‘ %&‘ RR5'‘ ‘ :
2*+K%++‘ "##*2'10!‘ 3'-B‘ 6'+)'104'+/*6‘ #2"&‘ +'1‘ "##*2'10!‘ *5‘ 5‘
‘ ’)+‘ "&K%2%)'5*‘ +4##'<'*1< ‘’1‘)2%1+02*++'"1+‘ "#%2')4%(‘ %16‘
&"2%(1%)42*‘ 4& -‘ 5‘ I‘ B/ ‘'##*2*6‘ - ‘)/* /'(‘+)'1*+!‘ A %&
;5'5 !‘ U'/+<"2'#"2&%-(*‘)'" /*%)/*1‘ 1")’’1+!‘ ‘)6
2'%(!‘ +*%+"1‘ "#!‘ %((“B*6‘)'" &*1!‘ *1‘ 5’‘ ?‘)/'+‘ B"2(6‘%+)%)* "#!
*1‘?‘q?<R‘9 2*B%26‘"#*1642'10‘)!;
2'%(+!‘ +)2*10)/‘ 416*2‘)/*&‘ 0'5*1‘)'")/*70"6(! +‘ R(‘’ A?‘
2'-*+‘ "# +2%*(!‘ 1‘ B/%)‘ "26*2‘ %22%10*6!‘ 42#'-‘’‘’‘ :‘ 2*%+"1‘ "#
)/*%22%10*&*1)!;(''6‘)/*‘ 14&-*2‘)/%)‘+/%2*6‘)/*(%16‘ "# %Y
1%%1!‘ 3"+/ PR' ‘C2 2*<.*1*6‘ '’*‘)B"‘ 6'##*2*1)‘ B% +!‘ ‘)6!‘)/*'2‘
%((")&*1)+‘ "#)/*‘ K2"&'+*6‘(%16‘%02**%-(*‘)'")/*‘ K2*6'<)'"1+‘ "#
‘ 3%<"-;%16‘ +* '73"+/‘ R5‘ ‘ %‘ K2"" #)/%)‘ '5'1*‘ K"B*2‘ B%+‘
+K*<'%((‘ ‘<"1<*21*6!‘ &%1 ‘ "#)/*")/*2)2'-*+!‘ -*+'6*+‘ 34‘
6%/ ;2*))*1*6‘ #); &‘ %- ("1!‘ ‘ /2"1‘ 'R‘?‘ <'5'(‘ 24(*2+‘ %K‘
U$K&/)*6;"5*2 K%</‘ #‘ /2"1‘ RR5''!H(‘U'1‘)/*‘ *14&*2%)'"1‘)B"'
)2'-*+‘)'"* '/'))*6' #-2‘B/'</ 1(‘<"1$*<)42%(‘2*%+"1+‘ <%1‘ -*‘ %+Y
+'01*6!‘ 5*2‘ ‘ "&*"#%((‘)/*‘)B*(5*‘)2'-*+‘ 2*&%'1*6!‘ %#)*2
)/*‘ <%K)'5') ‘ <)+‘ ,R5‘ ‘ I‘ ;‘ 1")‘ &*1)'"1*6‘ '1‘)/*'2‘ "26*2!‘ %16‘
+%&*"&')*6‘ *5‘ 5‘’‘ :‘ ** +0 6 6 [&
OO ‘)*1!‘+ &*#*&%'/+‘ "#$"'1*6‘)'" 346%/!‘ 3*2‘ RRR5''‘ 9
2'-4)*)'" +%#!‘)/*V4*+)'"1‘2*+K*<)'10‘)+(%B#4(1*++‘ '((4+)2%)*6‘
%)/‘R, ‘’‘ 7 /‘6*+'011#)/*‘ /%2'+**+‘ '1‘ K4))'10‘)!‘ 5*2‘
‘ B'+6" &;/# /2'+)+‘ %1+B*2!‘ 5*2‘ 9A‘ '&K"2)%1)‘ 6"<)2'1*‘
‘(%'6‘ 6"B1‘-‘ '#$"‘ '1‘<"1+*V4*1<*!);? ‘ V4*+)'"1‘ <"1<*21'10‘
')‘ %0')%)*6‘ - ‘)/*‘ 3*B+!‘ "&‘ R'’‘’‘ ‘ /"B‘ 6*<'6*6‘ - ‘)‘
%4(!‘ '6(;6!‘ %16‘ "1‘ /%)‘ K2.4%K(*!‘ /"B‘ 6'+)'104'+/*6‘
#2"&‘ <4+)"&!‘ 5*2‘ IT‘ ‘ ‘ ‘

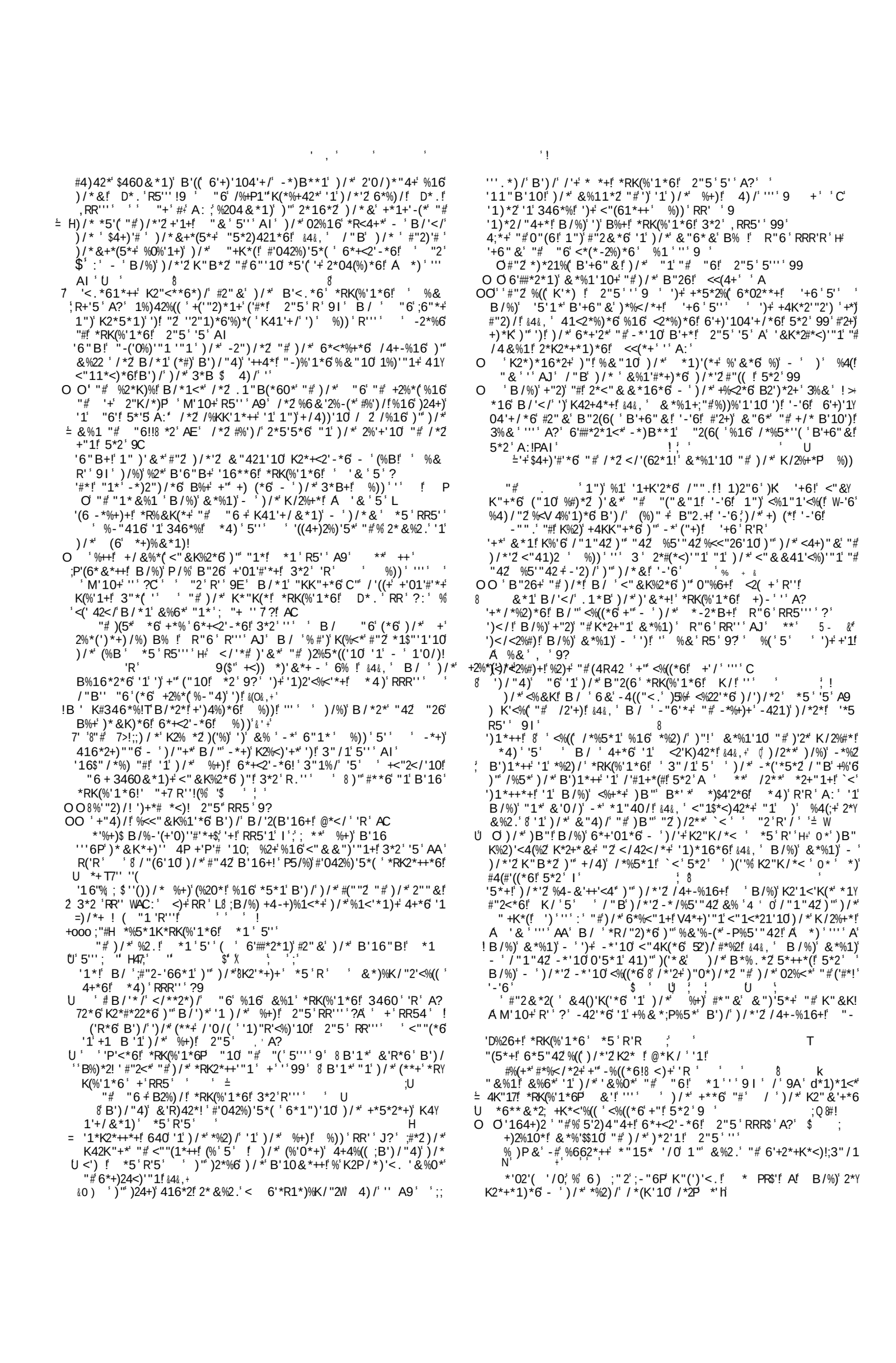
V'1) ' +' RR''' ' I7 ')+ / *<" " ''10 /2'+)'%1' K2"K/*+'*6 "#! P*2' AJ' '+. *)</' %H# ')+ ''+)"2 !; &4&, ') / *' +'*0* "# ')' - ' *-4*/%6 ' 4*DD%2P 3*2' 'R(5''' Y+ ')+ K2*+*1)+ +)%)*! D*. ' RR5' ' : ' B / *) / *2 ; "(6' "2 1*B' K2"K/*+'*6 "#! 5*2 ! I!AC ' B / ' <%((*6 +)2" 10 '1') / *' +*%!!5*2' AI ' ')+ 6*+)24<)'" 1' #"2*)"(6! &"+ ' ' L' <*(*-2%)*6 #"2 ') ';M'</*+! @*</' 'R ' ?' +*)' "1' #'2*' ' (*R%16*2! 5*2' C ' 9 (%66*2 "#H % &"41)%'1'+'' <%((*6! A %<' +' ' : L; ' / %16) K(%<*+ 2* &%2 .%-(*' #"2) / *'2);'<*+' %)) ' R' ' F / ' 2'%1' K42K(*!) / *' *R<*((*1< ' "#! 3*2' R') +! B / *1' -*+'*0*6! *6)"; %5) /%0*! +' RR''' E') / *'2 "1Y 64<)') "B%26+' 6'*'$*B+!' D*. ' RR5' ' 9' ' B / ' +4</' ;+<%1) ' %<' ' "41) ;$"#) / *&! 5*2 ?' #(*6)'" %2+/'+/' %16 /'))' &! 5*2' AJ') / *'2 K2"6'0%(') P D*. RR ''' I7 </'*#(' +4KK('*6 UB')/ K2"5'Y +'"1+ - ') / *' 3*B+! <)+ R''' 9 ' U +16 +*' & # 6 B / %)' 2'5*2 +4KK"+*6)'" -*! %1 ' 5''' ' 9 1%1'1'()' '1' "2+/'K 2*<" & &*16*6! " & ' R5 ' E' **' 1') ' 1 -*('*#!) / *' &")/*2 "# +'1! *1 ' ''' ' C' ')+ K41'+/ &*1) ' 4 & -! R''' ' ?A' /%26*1*6!) / *' 6%10*2 "# ' %))! R''! ' B / %)')' &*%1+ ''2)' 61P)42*$' %[#+ R5' ; ' "#))*1 K2"<'*6+ #2" & ' % K*25*2+*' %16 <"224K)*6 &'16! 4 . *' R5' (; B / *1' %((2*%+"1%-(*' &*%1+ #"2 2* &"5'10 ')/%5*' -**1;;)2'*6! & "2*' %2*' 1")') "' -*' *RK*<)*6! &4&, ' K2"'"# "# %1 ' *5'(' / *%2) ' *(R' ''' A9' ')+ 6%10*2! &, +' ')+ &%('01') ! 12*2' A L' +'1' %16 &'+*2 ') /%)')' <<%+' "1+!)#";6 1-*('*5*2+! / "B' %##*<)*6 - ' "6;+ K2" &'+*+' +' 5''' ! AC' +" &*' /%5*' -**1' <"15*2)*6 - ' 2*%6'10) / *' ?6 </%K)*2 "# +%'%/! +' (''' ' 1)2"6 ') / *'2 <"1#4+'"1' %)' /2'+);+ +*<"16 <" &'10 2*K2*+*1)Y *6! g *) ' ''' ' (U O O ;&"6*21! 6'+K4)*') / *' 2*%(') ' "# &'2%<(*+ B / '</') / *' '1#'6*(+ ' B / "' B*2*' * *B')1*++*+ %<. 1"B(*60*6 ' %) ' R''' 9C' ('$+O "-+)'1%)*! K2*%</'10 "#) / *' "+K*(1")')"' -*' <"1)'14*6)'") / *& ' %)) ' 5''' D+ 1</%10*%-(*1*++ "# "6 +;1%)42*' % K"B*2#4(6'++4%+'5*' #2" & 5'<*! $% & 7'! ' U ' ; 1<'2*4 &<'+*6! / "B') / *') *2&' B%+ 4+*6 - ') / *' *-2*B+! R"6! 5' ' A9' B / ' K4)'#"2 B'<. *6! D*. ' R. 5''' A 1<'2 <4 &<'+' "1' 1 4+*6'#"2 % / *%) / *1! "& ' ''' 16*!; / "B' 4+*6'%+ %+ & K)"1 ' "#6*+"(%)''1! & "+ 5' ' A 1<(*%1' &*%) h ' +2%*(')*+' "-('0*6) "' ' *%)') / *&' '1') / *' <%K)'5') ! "+ ; 'R ?' ' **' *%+)+! *%)+ ' ' 1<(*%11*++! 6'+02%<*#4(<"164<)' "#) / *' / *%) / *1+! -4)')' '1' 2*(%' &')''1') "') / *'2 0*1+! F*4#*' RR''' AJ' B / %)' &*%1)' - ' "6' 0'5'10 U ') / *' / *%) / *1+ 4K') "')!' "& IP' 9C' 41' 5*2+%(<"1+*V4*1<*' "#'6"(%/ ' &4&, + OO ' +'1+ >#! h "B8) / "40 /)' "# - 7) / *' / *%) / *1+! K / ' 5' D+ K2%<' ;) '+*6' %+ %<)* "# B"2+/'K' ; *R<*((*1<*' "#) / *' "+K*(' 1') / '+ 2*+K*<)! &4&, ') / *'2 K*<4('%2 "##*1+'5*1*++! A / *++' '5' J' 2*Y #(*<)''1+ '1') / *')1%11*2' / B / '</') / *' <2'K)42*+ +K*%.' "#') / *&! U &4&, + **' "21'<%)''1' &K42') 1<"5*2'10) / *' -*%6! %') ". *1' "#+"22"B' *5' R' D+ O O') / *' -*%6 "#) / *'K2'*+)! B / %)' &*%1)' - ') ' *5' RR$' A ? 1<)''1' #2" &') / *' "(' 1*! ` < ' *RK(%'1*6! A3" / 1' ' 9 16*20'26'10 % + / 'K 6* +<2'-*6' <)+ RR5''' 16*2+)%16*) / ! +<2'K)42+6 +61+*; #)(*' B"26 ' %))' R''' ' 16*2+)%16'10! B / ') / *' <2'K)42*+ 2*K2*+*1)' B'<. *6 &*1' B') / " 4)')! *4) ' / RR''' 9J! = 16*2+)''6' 1")! '1' B / %)' +*1+*' +K". *1' "#) / *' 6'+<'K(*+! 4 . *' 'R C: ' ' ' ' ' $2' ; U 16*25%(4*! &*1' %2*' %K)')'" 416*25%(4*') / *'2 K"++*++'"1+' *1 R5 8 9 ;; ;) 9JH ' !! 1#"20'5'10 +*25%1)' K%2%-.("#! *R / '-')+)"'")24*' % K'<)42*' "# / 4&%1;<&'64<)! %)#<'R5''')' J: ' K2"K*2' &"6* "# %KK('10 ')! &4&, + ' : 1#2%')#4(! &*%1&0"#) / *' "26 %)%KK(' ')"B"2.+' "# 6%2.1*++! K / ' ' AA' $! ' ' ! 10"6('1*++' "# &%1 ;')+ '01'#'<%)''1' (%+ "KK"+*6)'" 412'0 /)*"4+' 1<M! "& ' AJ' ' ;1' / /6 * & ' +' H 1'<"21! 6'##*2*1)' "K'1''1+ <"'46*2/'10 ');!; 1)1-' RR''' '99 ' &")+) K2"-%-(') / *' 2 / '1K**2"P >E2# ' C8F<2'-*6! 3"-' RR. 'R' L ' ` ' RR'' ' (M& A &+ . ' ' ' 2 ' % 1''1' %16' &4)4%(2*(%)''1' %&V10;t /2'-7)'%1+' B / %)' 2*+4()+ #2" &')! "& ' R''' J' + B ' ; 1''1' B') / ' /2'+)! ' B'SL' -%) / ' 3 "2! ' 5' ' #(I ' ! S1^(!'$ ' B / %)' & * % 1 + !) " B 2 N ' 1') ! ' &K"2)%1<*' "#!) '") / *' +*<42') ' V#)(&' /4[</H]3 XP2 P'2 ' ?' ; % <B'6')''1' "# "6 + K2*+*1<*!%& "''0 4#*! 9 _S[8R'' h ((' 7- ' B / %)' "-('0%)''1+ i 1#"2<P! K / ;'5! C ' "#2'3 ! ' '2# ; %16 </%2') ! B / ' +" &4</' K2*++*6 '1)(P*' K'+)(*+')K) / * U "2'1) / '%1+! A "2' R ' ! AC ' W !) ! '1' </42</' %16 +)%)*' K2*+*25*6 - ' 2*('0''4+ %+"<'%)''1! '$*4) R5' ' U ' ' '1' $460 & *1)' %16 %##*<)''1' 8 / "B')"' -*' 2*+K*<)*6 %&"10 /2'+)'%1+! A "2' ' A ' ! ! 2 5' ; O P' "# #%')' %16 6"<)2'1*' 1)'&%)*(' <"11*<)*6 B')/) / *' 41') ' "# %##*')''1! K / ! '5'?' ' ! ' = O "# "6! K2"5*6 - ' 2*%+"1! R"6 'R, ' \+ <"1#'2&*6 - ' <2'KY)42*! &4&, ' *RK2*++(' %++*2)*6; '1 <2'K)42*!' *4)! '!'C ;7 K2"5*6 #2" &) / *' -%K)'+&%(#"2& ' %)) ' RR5''' AL ! 3 "#) / *' K'2')! / "B')"' -*' .*K)' '1') / *2-" 16 "# K*%<*! K / '5' ?' $#!=; 1'5*2+%(</%2') ! B / ' K%2)'<4(%2(' 2*<<%1&*''6*6 !!)"') / *' %(%Y)'%1+! %(' 5' A ' ' ' ! ; ' U ' ' 5$'! ' ; ' 7;] ' 2*6*&K)''1' - ' /2'+) + 6*%) / ! %++*2)*6! "&! !B' A9! AC!AJ %++*2)*6 %16 K2"5*6! 9 "2 ' AC' 3 3P1 $''TPP' $; 1$4+)!) / *' / *%) / *1+ +"' <%((*6! P "2' ' ' %16 B / '&4&, + =+ 1 . 1"B1' "6!) / *') / *1'%1'%()PH) h !5 ''"4+ "K'K' '+ 2*+K*<)'10 ')+ "2'0'1' <)+ R5''' 9?' ; ' ' ' ' ' ' + =+ ''' 3 1(%B#4(! 1") / '10 41(%B#4('+ *RK*6'*1)! * > '' / ' :' 5R'R JH 1(*%21*6!;%2*' 1")') '" K2 ' K%)')'<&%2(' '1)K K2"K / <2''"+ B / '</%2* *)' #4)42*! %1 ' R''' ' ' ' ; ' '! f X' 7 H ; %16 41+)%-(*! B / %)' K*2+"1+ &*%1)! g *)! ' ''' ' / "B') / * 8 B2*+) ') / *' <2'K)42*+! &4&, ' / "B' 8 41) '") / *'2 "B1' 6*+##"<)''1! ' &4&, ' &*%1'10 4%) / *' B / "(*' K%+%0*! ! ** *%21''S0! 2*%</' *2+! "#) / *' "+K*(' # 4 &7' !5"' 2[2W' &4 ')1 1(*%5*1*6 -2*%6! #'2+)'6% ' "#! B / %)' '1)*16*6! ' %))! , ' , P ;(I ' 1&%22'*6! '1' B / %)' +*1+*' 4+*6! A "1' 5' / #" ;- ' 2++H7 1K%26"1%-(*' +'1! 1"' +'1' %)') / '+2''1" '7*<*+++%2'3 L!$(3T$(/!X) K%2 ' C' ' ' 3> <K 1K2"#')%-(*! B / %)') / *' B"26' &*%1+! / '(*>$! *'5($ H [H / ! .'"> AI ' 12'0 /)*"4+' K*2+"1+' '1*%K%-$*' "# *)*216' ('#*! ' "B! ' ' L)' ; 2*Y #(*<)''1+ "1') ' %4(+ *'1K-%)'<%(%++<2)''1 "#')! &4&, + 12'0 /)*"4+1*++ "KK"+*6)"))24) / ! B / ' &*1' %2*' +%'6)'" "-*' ' 7 2' 2 ' a 124(! % &'(')%2 ')*2&! :A / *++ ! 5 ' B / '" %(*1")*6 - ' ')! ' : '$' 8 1+ / P! B')/ / "(6) / ' #"")Z #2"17' / <'10! ' *RK2*++''"1' *RK(%'1*6! 3*2' ''' 9 : ' ' # ' ; U =(+ 1+K*%.%-(*' 0'#)! B / %)')' +#"2' B / '</')! %'$ 0'5*+!A / %1 . R41)'" "6! g "2' 'R' A: ' U 1 ! 5' ! ') $! 1B"2) / '1*++! 1")' % 2*%+"1' #"2'P%-+)%'1'10 #2" &') / *' $RH26+! +4KK*2! ' "2' R' ' B / %)' % +*1+" # ')' + / '"%(6 K2" &K) K*2+"1+)'" 6"! &4&, + +)%)*' "#) / *' <%+*' '((4+) 2%) * 6 !; * *' = %' 4KK*2! `< 0''"6 *##*<)+' "# % +*1+*' 6#')! '" 3"/1' ! C' ; K / %2+'1! B / %)')' (')*2%((' +'01'#'*+!; %1! 9J KD O' B / *2*' +')4%)*! 3*2' , ' ' = 8 K / "(6'10 %(( ) / '10+ - ') / *' B " '$' T## / '+ K"B*2' *RK(%'1*6! *- ' ?' 2* &%2 . + "1' ')+ -*'10 %))2'-4)*6)'") / *' "1' "# "6! K2'0 /)!) / *' -(*++'10 "#) / *' &! B / %)')' &*%1+! 2" R' ' 7' 7 K2'0 /)1*++! (%16 "#' B / %)' &*%1)' - ! +'<R(''2' A !) ' ' ' ' ! KB%26! <"1+'6*2 #2" &') / '+ 6% ' 4KB%26! *RK(%'1*6' %0 '"#' A:! U AJ' ' I' U # ' "#) / *' / %(6**+! B / *2*' +')4%)*6! *1' R' ' 9J' ! ' = K ' B / ' <%((*(*6 8) / *'))')*!' g %& R' ' ?' ! K ' 56 'B> 5)' > 82>< 43 6 ' ;2 '14 8B 231 ' 7 56'23 @ A' [25>4 ' B> 31) ' g ! 3? ' R5' ' M' ') ') /) / +"1' "# / *&%'%/! %2"K / *)! <"1)*&K"2%2 ' B') / ' 3*#*K' "/! ' 3*2' , , ' C; 2 8 U ; ' ; 2' &'%16 / 4&&'&! +'01'#'<%)''1' "#) / *' B"26+! R"6! RR 5''' ? ' B / %)' '1)*16*6 - ') / *&' 41<*2)%'1! &4&, ' ' "21%&*1) #"2 *1%Y -('10) / *' / '0 / K2'*+) ') '" <"((*<)' 5'1*' 1+)24<)''1! / "B' 1")'<*6 '1') / *' -(*++'10 "# "+*+' 1 *5'!' *4) ' RRR''' ; J!) / * 6*+)24<)''1' "#) / *')*&K(*! <&'$*<)42*' %-"4)')' %)' D2% ' ''! E?7 7O ' 8)'(( ) / *2*' +)''"6 4K' % K2'*+)' B') / ' 2' &' %16 / 4&&'& ' *RY K(%'1*6! D2% ''' DH ' * / ' 5''' E: +42 ! / "B' 6'+)'104'+ / *6 #2" &' '1<2*%+*' *5' RR5! ?E' K2" / '-'Y)''"1' "#) / *1' / "B' '1)*2K2*)*6 - ' +" &*! 3*B+! &4&, ' -*1*5"(*1) #"416%)''"1' "#) / *' K2*<*K) &, + K%(K%-(*' B'<. *61*++ "#%1' *R



, J I . 2 ; K ' 2 ' I ; ; ' J I ; E

' %' /' '1' /%+-%1<(' ' *RK(%'1*6' +' RR5''' ' 9 I
8 %')' #"2) / * "1' "# "6 #2" &' / *%5*1W B /%)' ')'+'01'#'*6f ''' / *++
'' L!A ')'" 6'" +"f K*<4('%2)'" /2'+)'%1+f &4&, +
%. *' "2 +(**K "KK"+*6 '"' *%<//") / *2f B / %)') / * ' +'01'# f ' / *++
' A ' = ' ' '
%(. f B'((B%(. ' %& "10 "4 ' *RK(%'1*6 ' *5 ' RR5' ' A9 ' U
8)'" B%(. ' +42*(' *RK(%'1*6f 2"5 ' R ' L7
O ' 8 B%(. ' %#)*2) / * #(*+/!' 8 B%(. ' %#)*2) / * EK'2')! *RK(%'1*6!
"& ' 5''' ' Af C' ; ;
%(. *6 B') / "6! & *%1'10 "#) / * K/2%+*f *1 ' : ' 99 ' 5' L '
%(. '10 "1' 5) / * +*%f 6** &*6 % K*<4(%2 &%2. ' "# '5'1*' K" B*2 '
%)) ' R'5 ' 9 ') / * 6*+'01' "# /2'+) + &'2%<(* "# B%(. '10 "1') / *
+*%f 5*2 ' JA ' ')+ *##*<)' "1') / "+* B / " B') 1*++*6 ')f 5*2 ' ?
O ' - ' #%') / ' 1") ' / ' +'0/)f B / %)' ') ' &*%1+f 9 "2 ' 5 ' < /) / * 6'+Y
)'1<)''"1' "# % /2'+)'%1f ` ;6 ' 8 o
OO ' '1') / * K'2')f B / %)' &*%1) ' - ' ') ' %(' 5 ' AE ' B / %)' *1+4*+
#2" &' ')f &4&, +
%((f 8)'" 0'5*' 4+ % B%(('1' 346% / ' *RK(%'1*6f D2% 'R ' L '
P%((+ "# +)"1* 4+*6 #"2 #*1<*+ '1' %(*+)'1*f 2"5 RR'5 ' ?A ' 8 '1Y
/%-')*6 %#)"B1+ B') / "4) B%((+ ' *RK(%'1*6f @*</ ' ''C '
%16*2'10 "#) / * +2%*(')*+ '1') / * B'(6*21*++ #'042%)'5*(' 6*Y
+<2' -*6f 4& - ' R'5 ' ??
%2f / "22"42+ "#$ / "B' +"#)*1*6 - ') / * 3*B'+/' (%B f *4) ' RR'
A '] P ;
')B"' .'16+ "#f &*1)''1*6 '1') / * 3*B'+/' /'+)"2 ' *4) ' RR
/
O P ' ')+ K2"#*++' "1' 1")' 41(%B#4(f 4 . *' ''' ' A?
O '1' /*%5*1f B / %)' ')' +'01'#'*+' *5 ' R'' ' ##' ' ;
%2#%2*f ' '1') / * (6 *+)%&*1)f) / * +*25'<*' "#) / * *5')*+8+"
<%((*6f A '2'(' '' AJ ' '1') / * *B') / %)' * #) / * /2'+)'%1f &'1'+)*2f
#4#" U ' ' U + Z 7
%2'1*++ %16 B%)</#4(1*++f ' &K"2)%''<'* "#)" % /2'+)'%1f A "2
UR ' A9 ' "-$*<)') "B / '</') / * ' +/'4(6 / * 6'2*<)*6f ' ``6
%21'10+ "# "6 ' &*2<'#4(1*++ "#) / *&f *4) ' RRR'' ' : ' 1") ')"
-* 1*0(*<)*6f &4&, +
U
%2+f K2*<*6'10) / *;6*+)2 <)''2" #3*24 %(*' f %))7f RR'5 ' EH <'
%+ / '10f K%26"1' "# +'1' *RK2*++*6 - ' ')' +' '' (E ' 7
O O ') / * /%16+f 4+)"& 1#,) / *#3*B+ Z-*#"2* +%<2'#'<*f +' RR5' ' D+
;%X+ ' / *#"2*)1*%'+ %)); 87R)) ;9' ' ; ;
O) / *#**)f / ' +"<4+)"'%%'2 ' '1') / " %+)f *1 ' R5''' ' I ' K2%<Y
)'+*6 -) / * 3*B+ -*#"2*)1*6++ 4 . ' ''' ?J ' 0'5'10 B%)*2 #"2
) / '+ K42K"+*'%#*)) 4%(%2 . ' 6# 2*+K*<)')" % +)2%10*2f *2 ' CC
U ; ;) / *;6'+<'K(*+ #**)! - Z /2'+)f h'01'#'<%)''/ "#) / '+ %<)''1f
3" /1' , ''' : A ;); W4 8 ;8
) / * +%'1)+ #**)! ' B / %)' ')' 6*1")*+f A '& ' 9 ' A
%+ / '10+f "4)B%26f 1%5%'('10; B') / "4)' '1B%26 <(*%1+'10 %))'
,R''' 9E ' ;
%)</' '1') / *)*&K(*f) / *'2%()*21%)*' <2 !; S ' <RRR'5 ' '1)2"6 '
%)</*+!; %1<'*1) ' $* +';6'5'6*6) / * 1'0 /) ' '1)"') / 2**' B%)</*+f
3460 ' 5''' ;AL ' "&))1+f %16 #2" &') / *&') / * (%)*2 3*B+f '1)"' #"42f
&4&, ' %)) ' R'5 ' 9 : ' %2 . ' R''' ' ? : ' Ù R"6 ' R'5 ' 9C
%)</*2+f &*%1'10 -*+'*0*2+f 3*2 ' '5 ' A ' B / %)' +'01'#'*6 - ! %1
' f 2W 83 ; ; H ' 2'
%)</#4(1*++; ; *%21*+)(2* &&*226*6f %)) ' RR'5 ' C9 ' #2" &') / *
1<*2)%'1) ; "#) / * /6 2 %)' B / '</' K42 "26' &% +4 &&"1' 4+f
; %)) ' ,R5 ' A? ; ')+ -(*++*62'* ;%#(6; 2*B%26f 4 . *' R'' ? I ' B / '
2*<"&&*16*6' B') / '0""6;2*%+"'(#* ') ' *)*2f ' *) ' 5 ' %+
%)</&*1f +)%)"'1*6 '1' / '0 / ' 2')4%)''"7 '1' K*%<* %16' B%2f)"' K2*Y
5*1) ' +42K2'+*f 9 M'10+ 'R ' AI'8 ; %- ' '' ' X= P) "B*2 "#) / * B%)</Y
&*1!; /%)' &*%1) ' - ') / *)*2&W 9 'M'2'0+ ' ,5''' L ' K4) #"#;;8)*%</Y
2+ "# 2('0''1! +' 5' A ' ; ;
%)*2f / "B')"' -* K2"<42*6 '1' 0 K) ' %16' 2'%f R"6 ' 5'' ' 9CA;')+
+<%2<') ' 1*%2) / * *6 +*%f R"6 ' R5 ' 9?* 5%2''1+ . '16+ "# K(%<*+
'1' 0 K) #"2 "1)%'1&0 ')W R"6 ;5''' AL ; ZB / ' *14&*2%)*6f
&4&, ' K%'6 #"2 '1') / * %+)f 4&- ' RR ' AL ' %2% ' 5 ' C ' '1+)%1<*+
="# 02%)4')"4+ 6'+)2'-4)'"1') / " 0 / #2*&%2 . %-(*W 4&- ' RR ' '
<"1+'6*2*6 '1') / * %+) %+ %1' '&K"2)%1) K%2) "#) / * K2"5'+''1'
#"2 % 2*K%+)f A %& ' o8MMJ 2 2 ? ; 3 :
"# +*K%2%)''1' *RK(%'''*6 ; #) / -); , ''; ' ' 8 / * =+/%((K"4) B%)*2
"4) '"# / '+ -4<.*)+' *RK(%'1*6' 4&- ' RR'5 ' I ' *&-(*&' "# %
(%20*' K"+)*2') f &4&, ' -(""6)'" -* K"42*6 '1') / * *%') / %+ B%)*2f
*RK(%'1*6f *4) ' R''' + 5%2''"4+ "K')('"'+)*+K*<)'10) / *(+2%*('
U;')*+ 62%B'10 B%)*2 %16 K"42'''0;'#3"4)f '" %& ' H5'' ; 8;K"%2*6
B%)*2 "1') / * /%16+ "# ('$%/ ' RK(%'1*6!7P M'10+ ''' ' AA ' = ;=

%)*2f !+4KK(' "#! &*%1+ +4KK(' "# 02%<*' + ' R(' o3 I [' R('5 ' ?') / *
##4+''1' "# +K'2')4%(0'#)+ #"2)"(6 416*2) / '+ #'042*f 3" / 1' 5'' f
?J f
OPO '%16 -(""6f '1' B / %)' +*1+* +%'6 "# /2'+)) / %) *' *%&*' 8 - '
B%)*2 %16 -(""6!' A 3" / 1' 5 ' Ef = U
T T ' e 'D # $' "!'% ('5 ' ('5 ' "! ' 5 ' ! 8 5 ' ' $# * ('
U - % 1 ' ' ' G
%)*2'10) / *P*%2) / ' '1' 0 K)f &%</'1*# "2 ') 6*+<2'-*6 ' *-) ' R'
A ' +'&'(%2 K2%<)'<*' '1' /'1%f &4&, + ;
OO '#"*' (%16 B') / ') / *#"")f 6'##*2*1)' *RK(%1%)''"1+ "#) / *K2%<)'<*f
*4) ' R' ('
%)*2+f +*K%2%)*6 #2" &') / * *%2) / f "-+*25*6 - ')2%-'" %+ %1' %<)'
'"# '5'1*' 2"5'6*1<*f *1' 'S) + 8;6241 . ' +)2%10*' B%)*2+!' B / %)'
=) / *K / 2%+* '&K('*+f 9 M'10+f R'R ' 9C ')2"4-(*+ %16 <%(%&')'*+
RK2++*6 - ') / *&f +' R5''' f C ` 8 iRRR' A ' ' "# 346%('f &*'&'40
/'+ K")+*2') ' +' R(5''' A ') / * /%(6*%1+ <"&K%2*6)"f 3B '
R(5''' 9 ' 02%<*' "# "6 <"&K%2*6)"f 3*2 ' RRR' ' A9
('5'10f &*%1'10) / * "+K*(f @*</ ' R'5 ' J
%5*' "##*2'10f / "B' 6'##*2'10 #2*41 ' / *%5*!RS##*2' ' hf R"65 RR'R
;9 I ' ' 7 P
% f 8)'" / *60*' 4K % B% *RK(%'1*6! "% ' ' ' ' =R ; '
% #%2'10 &*1f B /) / * ' 8 +/%((1")' *22W *RK(%'1*6f +' R , R5WJ '
% &%2 . +f B / %)') / * ' B*2*f *RK(%'1*6f 3*2 ' RRR' ' 9A
% +f 8 +)%16 *' '1') / * B% h;Z&*%1'10 *2#) / * *RK' *++' 'S $tX2 5 '
D ' ' '
%. 1++' "# /4&%1' 1%)42*f +/*B1' '1' "(" &"1') / * B'+*+)f "#
&*1f A M'10+ R' ' ?f C ' H ' ;
*%() / ' 0"))*1' - ' #%(+*/""6PP '1+)%-(*! 2"5 ;RR'N E ' U =
OPO)'" -* 4+*6 B') / '+"-2'*) f ' ''"<(*+ 5 ' AJ ' ! ' ' U
*%K"1+ "# B%2#%2*f B / %)' %2*) / "+* "# B / '</'! #2 %4(+K*%.+p '
9 "2 ' , ' ')'" B / %)' / * "KK"+*+) / *&!' : '6 ' =N U
*%) / *2f) / * </%10*+"#')' <"1+'6*2*6 ' 3^#'" RRR5''' " 99 ' ' U U ' ;H U
*66'10 0%2&*1)f) / * <4+)"&' "# B*%2'10 ')' %)) ' RR'' ' ('($)+'
;') K'<%(&*%1'10f &4&, ' 5*2 ' A? ;) ' 7 U ; ' = U
**. f *RK2*++*6 - ' 8 *'0 / ' 6% +! 3^6' / ' , , ' 9EN Z '' =
**. +f +*5*1) f "# %1'*(f / "B')" - * <"&K4)*6f %1N , N 9C72 ^ 9 `&
: <(*%21*++ "#) / '+ K2"K / *< f 5*2 ' 9 I ' 7=+= /5
'0 /)f -2%6 6*('5*2*6 - f &%2 . ' "# P2*') f *5 ' MM ' ' X ' O
*'0 /)+f #2%464(*1) 6'5*2+') ! #f %-"&'1%-(*;) ") / * "26! ' 2"
' A ' ( ) ' ' -a PP = ' 5 =) *((+f / "B' <("+*6f '1' 2%-'%f *;1f RR''' 9 ' ;%16 >B / f >E'6 ' K2%' ;Q
-%-(* 24(* <"1<*21'10f 5*2 ' J f A ' +)"KK*6;%167f 6*+)2" *6 - '
) / * 2%-+' "4) "# 2*5*10*W *%BRR5' ' !A: TR2# 0" "6 B%)*2 % K"+Y
+*++''"1' "# 02*%) %(4*N 5*2 ' 9 N) / *7(%-"42 'H +*6 ;'%-B'#"#"*&' P
/%26(' <2*6'-(*) "* %1' 10('6" Z*%2 ' ``6! 2*&%*#<%-(*7 '1+)%1<*+
"#) / *'2 02*%) K2'<*f &4&, ' 6%10*2 "# 2"--*2+ 1*%2) / *&' '1') / *
%+) f "3460 ' 1 ' M T'5; ' = U U'!; N [;
"# +%(5%)''1f *RK(%'1*6f +f R' . ' ?' ; WB') / 4* B%)*2 ;4+*6 B') /
02*%) #"2<*' %+ % <"&K%2' +"1f 9 *) !X ' A I ;; ' 7 N N ;
K) f) / 2'<' 2*<"26*6 "# "42 " 6! Z) / %) *' B*K) f 4 . * R'R ' CA '
+) <"41)2 f 2(%)*+)" K2*+*1) 6'+K*2+''1' "# # / * 3*B+! =@*<(' 7;
5''' ' ;7 '
/%(*f K4) #"2 <2"<"6'(*f D* . RRR''' 9 ' = U
/*%) f '1') / * %+) ("60*6 '1;+4-)*22%1*%1 5%1()+$ 3*2 ;R('" a+
-*%)*1' 1' % &"2)%2f 2"5 ' RR5''' 99 ' W ' ! U ' T '
/*) / *2f 4+*6 #"28 B / '</' "#) / *) B"W <<(%+!; , ; =' ' '
/'2(B'16f 6*+<2' -*6f 3"-' ' & A T &&&&&&&& ; T # # # ' 9 ' 5
/'+K*2*2f -%+*f <"16*&1*6f <<(1+' 5 ' AC7 = = ' 8 ' H Z#
/ ') * +)"1*f % &%2 . ' "#%<V4')) %(' *5 ' ''f AI ; =
O O 0%2&*1)+f % &%2 . "##/5'42 %16 ' /"1'42f *k' ''' ;OW
OOO 2"-*+f %) " . *1' "# 3N42') ; *5 ;5''' L ; 0'5*1') '") / "+* K2'*+)+
B / '" B*2* %6&')*6 '1)'") / *'2 "##'<*' *5' 5'* ('($T; / *'2<* #$'*2
&*)%K / '2'<%(4+*f $$'6' U U H
S ' / "2+*f / '+2'6*2 * &-(*&%)'<%(;"# /2'+) '+ '<)"2 f)2'4&K / !
%16 2" %() ' * N ' 5'* 9Z
/ ')*6 B%((f '((4+)2%)''"1' "#) / '+ *RK2*++''"1 ; 4+*6 -) ' %4( )'"
1%1'%+f <)+ RR''' ?
/ "(* <"102*0%)''"1f +'1 "#f 6'##*2*1)(' *RK(%'1*6' *5 ')5 ' A?'
/ "2*6" &+f * B'# *' "#f *RK(%'1*6' "+) 'f 9' ;
'<. *6f) / *'# +"<'*) 6%10*2"4+' 4&- ' R5'' 9 ' <42-*6 - ' '
'5'1*' /%16 4&- ' RR''' A9' 4+*6 %+ '1+)24&*1)+ "# '5'1*'
$460&*1)f %16) / *1') / *&+*(5*+ +4-$*<)')'") f A M'10+ R5 ' A9 '
+' A9) / *'2 K")+)*2') '1 / *2') #24) "#) / *'2 +'1' 3"-' RR '
) / *'P N K2"+K*2')) / ") ') '" -*$460*6 "#f +' RR''' ' "6 '1' '+



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+ ' I) > (> CF C4 + I 4 = + ' I = >) * Gd 5 * 5 G I

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% 1 6 O '1+*2)*6'1') / * K2*<*6'10' %K

0 7 +!) 6.# ($%16' , &*& -$ "#) / * +2%*(')*+!

3 '((4+)2%)'10') / * - "" . +' "# 3"+ / 4%'%16'3460*+

3" ! XXX +)" 1' '" $ %' '((4+)2%)'10') / * - "" . +' "# M'10+

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1 ,-$ "#) / * *!$-% $' '((4+)2%)'10') ' %4(+')2%5*(+

8 +1 +)$ % &' %16') / * 1 *'0 / - "42'10' <"41)2

4)! B / '(*') / * *"02%K / '<%(' 16*R' / %+' - **1' <"&K'(*6' &"2*''&&*6'%)*('#"2') / * %K+' "#') / * %&'(' '-(*!' ')' '+!' "#' <"42+*!' *V4%(('%6%K)*6')"' %1 '") / *2' +*)' "#' <2'K)42%(' %K+' 1') / * 2*#*2*1<*+')"' <2'KY)42*!' <%2*' / %+' - **1')%. *1')"' +*(*<)' +4</' %+' / %5*' - **1') / "40/)' - ') / * 6')"2+' "#') / * %&'(' '-(*')"' 2*V4'2*' +"&*' <"&&*1)' / *1*5*2' &"2*') / %1' "1*' 2*#*2*1<*' '+' 0'5*1!') / *'2*%6*2' B'((' #'16'%' +*K%2%)*' 1")*'#"2' *%</' 2*#*2*1<*' ' / *' &"6*21' 1%&*+!' K2'1)*6''1' ')%('<+' 416*2') / *'%1<'*1)' "1*+!'%2*' 6*2'5*6'#2"&') / *' +%&*' +"42<*

1') / '+' / *%6')' '+' 1*<*++%2 ')"' "-5'%)*' &'+<"1<*K)'"1 ' #') / *' 6'##'<4()'*+!' B / '</' %))*16') / *' *"02%K / ' "#' <2'K)426!') / *' 6')"2' '+' #4(('%B%2* ' "2' B"4(6' / *' #"2' %' &"&*1)' -*') / "40/)')"' 6*<'6*!' B / *2*' &*1' "#') / *' #'2+)')%(*1)+' %16' &"+)' *R)*1+'5*' (*%21'10' / %5*' 6"4-)*6' '+' "-$*<)' / %+' +'&K(' -**1') / '+' ')"' K2"5'6*'%1' 16*R')"') / *' %K+!' B / '</' %<<"&K%1 ') / *' %&'(' '-(*' %16!' %+' 2*K2*+*1)'10') / *' +%&*' <"41)2 !')"' %1 ' ") / *2' <2'K)42%(' %K+

#' %' B"2.' "#') / '+' 1%)42*!' %<<42%< ' <"1+)')4)*+') / *' < / '*#' &*2')' "' 2*16*2' ')!') / *2*#"2*!' &"2*' B"2) / ') / *X' %<<*K)%1<*' "#') / *' 4-('<!' *5*2 ')*R)') / 2"40/"4)' / %+!' B') / ' 02*%)' <%2*'%16' (%-"42!' -**1'5*2'#'*6' B') / ') / *' "2'0'1%(

K"1') / *' B / "(*!' ')' '+' / "K*6') / %)') / *' K2*+*1)' K4-('<%)'"1' B'((' K2"5*' %1'%<<*K)%-(*' -"".' "#' 2*#*2*1<*')"' %((!' B / "+*' %'&' '+' '1+)24<)'"1' ' %1'4+*#4(' 04'6*')"') / "+*!' B / "' *+)**&' ')' %' 64) ' %16'%' K(*%+42*')"' 2*%6' %16' (*%21') / "+*' +%<2*6' <2'K)42*+!' B / '</' +*)' -*#"2*') / *&') / *' B% ' "#' ('#*' %16') / *' B% ' "#' 6*%) / !' %16' B / '</' %("1*'%2*'%-(*')"' &%.*') / *&' B'+*' 41)"' +%(5%)'"1

% 2%" ! 2(% 8!(

FN' /W)' 3' ;A 3? ' 7 A f' M' 56)' ! 3♯ M' /N' FW' N' 8 9' 4 ♯ 8 29' 4' 56 ' ; %4> ' ' @ ' F0 F' FM / 7 A♯ 345 A 5' 56 ' ?4)' C1 B5' 564 ' 0' 8 ' $ ' FJ)' M / 7 45' 5625' 6 ' 764 8' 564 ' ; A 5' 0' R $ ♯ 5 ' / ' 2>5' % AA)' 56 3' 564 ' 62A♯ 4♯ 56 ' "4>@ FW' /F' 56 ' 62A♯ 523@ 43' 4 35' # > U 8 ' 54' 0' & (♯ MF' N' 56 9' 4♯ 7 56' 56 >' 8 4 56)' ; 5' 1 > MW / ' # 4@)' : 3' 4 >' # 4@' 62A♯ 4♯ ' M)W / ' / 0)' 56 ' "4>@)' 8 9' 4 A)' F' FF' '_ / N / 0' / J' FL' A 5' 56 8' 1 >)' ; 5' 0' 564 ' / / 0' /F' 56 ' "4>@' 7 A♯ M')' 6 ' 7 A♯ 4♯ 56 ' 64 ' 4♯ >2 A)' 6 ' 7 A♯ 0' 56 ' 64 '4♯ 2>43' / / L' FM ' 4♯ 6 ' 5625' 14 8 56' 3' 32 8 4♯ 56 ' "4>@)' 7 ' 62: ' 4♯ 94 ' 4 5 4♯ 56 ' 64 ' 4♯ ' 56 ' "4>@' 5 ♯ F/ J' ' ' F 0J A♯ 2 / / J' , ' H H>+ 5 ♯ 0' ' 4♯ 2>' 56 ' B44>' 3' B > 5)' ' : > ' N' 0' Q1 ' /N' / J)' 6 ' 4' 23@ ;>2< ' 23@ ?2: ' 56 ' A42:)' 5 %8 M)' N / ' ' /N' FF' "2< ' J' / M F0' N' 148 '9 ' 3' 4♯ 8 9' ' 256 >)' 3 6 > 5' < 3?@4 8' 5 %8 / ' / M ' 544< 56 8' B' 3' 6 ' 2>8)' 23@ 4♯ 56 8' /N' MA)' 2>5' 564 ' 56 ' 6> 5)' 56 ' 43' 4♯ 56 ' 0' ^ / ' FL' 0' 2>5' 564 ' 2 8 43?' 748 3)' NF /N) / N ' 564 ' 62A♯ ; ' 4♯ 56 9' 123345> 148 B 3 ' *30 /F ' / 4♯ ' 56 ' ! 3?' 4♯ >2 ♯ 5625' 148 56' . 'F ' 0' 5' ' 8 4> ' 4♯ 54' ? : ' 5623' 54' > 1 : ' / ' F0' 5623' 56 ' > 254>)' 764' ' 4♯ %4>' : >' J' 0' 6> 5)' 764' ' 4 : >' 2A)) # 4@' 4♯ %4>' : >' /F / N 0 ' 564 B > 5 94)' 4♯ 23@' 1 > ' 345 /' *%♯ A ' /M)' 56 ' 1 B' 4♯ ; A 3?) ' 76 16' 7 ' 4♯ F' 4>' / / ' / ' 0' %4>' : > 8 4>)' < 347 56' ' A9 ' 345 -3 ' / ' 764' 6256' 4' ' 7 56' B > 5 2♯ ; A 3?' /' W -4 # M' /0' 764' ' 56 ' 0' 23@ 43 A9' B45 3525 & ♯ F' / ' A44< 3?' %4>' 5625' 0' 64B ' 23@ 2BB 2> 3?' 3♯ W' / ' A16 @ 1' 8 5' ;>262 8' 23@ 4♯ 6 8)' M' ♯ / ' F0' 56 ' 8 23' 62A♯ ; ' 0' 3' 6 ' @ ' J ' 56 > 7 56' 4♯ 7 ' # 4@' : 3' 56 ' ' 256 >' ' ♯ /N / ' 4♯ 2>' 56 ' @ 2@ 5625' @ ' 3' 56 ' ' "4>@' FF' /N ' M' 2> ' 56 9' 5625' @ 4' 6 ' 148 8 23@ 8 35 ' & " # 0♯ FW L 2 2 @)62 5564 ; 543 ; 8 9' %256 >^ FL' N ' # 4@ ? : ' 56 ' 56 ' 3♯ 4♯ ;>262 8 NJ' F0' A 8 ?659' 764' 62A♯ ; A 56 ' 7 56' M' 4♯ 6 2: 3' 2 ; 4:)' D' 4♯ 56 ' @ B)' 4' * ' 56 ' ; > 2 5 ' ' F b&0) '>& / 0 / B>29' 56 '52< ' 2' 4♯ ' * 56 9' >: 235' 8+Z♯ 0' 76 16' ' C2A5 @' 2 ; 4: ' 2A♯ 4♯ 23@ B>2 ' / ' F ' 4 >♯ # 4@' 5 >3 @' 56 ' 1 > ' 354' 2' 3+ *4 FJ' / ' 3 ' 4♯ 4♯ ' 6 8' 5625' 72 ' > 2@9' 54' B > 6' (♯ F / ' %4>' 564 ' B> : 35 5' 6 8' 7 56' 56 ' 4+ / J' /W' 2 ' 6 ' @ A ?65 @' 345 3' 4♯ A 5' 5' ; ' %2>' %* ' ♯ FL' F ' 2' %2 56% A 823' 62A♯ 2 ; 4 3@' 7 56' 3+ ♯ A 4%56 ' 28 ' 84 56' B>41 @ ' M' 23@ 1 > 3? / ♯ H♯ Z♯ ; 5 1435>2> 7 ' 4♯ <347 3?' 5625' 9 ' 2> 5 ; > 354' 12AA @)' 5625' 9 ' 64 A@' 36 5' 2' 4♯ & " 0♯ ' /L' 1 > @' 5625' 8 2< 56' 56 ' 3♯ 54' 723@ >' *4 FJ' /0' 72 ' 9 '54' 56 ' 4♯ % 5' 54' 56 ' A2 8 ' ♯ OM' / ' 6 ' 72516 8 3' 2> ' 3♯ 56 9' 2> ' 2 A ?34>235' 5 " ♯ 0' 56 %5)' > 1 : ' 56 >' ?65)' / F FF' 7$8 (+SJ+J♯ /0' /N' 56 9' ; ' %5' A 2@ > ' 4%56 ' %5' %' 56 ' %5' A 2@ 56 ' %5' ; 456' %2A♯ 354' 56 ' @ 516)' $8 ' M)' J' F /M' 74' 54' 94)' 9 ' %5' ? @)' 76 16' 29' $8 ' N ' /L' 54' B> 216' > 14 : > 3?' 4♯ ?65' 54' 56 ' %5' . ' / ' / / ' 564 ' 62A♯ 6 ' %5' 345' 3?' 56 ' 3' * ♯ F ' / J ' 2>5' 143% @ 35' 564 ' 2>5' 2 ? @ ' 4 %56 ' M F' ' / ' J ' 6 ' 5625' A21< 56' 56 '56 3? ' ' %5 @ 5 ' %+ $ ♯ /M' / J ' 2 ' ? %5' @456' %5' 56 ' 9 ' 4 %56 ' 7 ' ' *%♯ ' /N' ; 5 56 >' 8 3@ ' 7 > ' M N ' N ' 3' 764 8' # 4@ 4 %56 ' 74>A@ 6256' %5' 56 ' 8 3@ ' ' *30 F' / / ' ; 12 '@2><3 '6256' %5' 6 ' 9 ' & ") / J ' / / ' 845 ' 56 ' 8 3' 25' 56 ' @44>' 7 56' %5 ' / / ' FO' %5' 3' B2>5 ' 62BB 3 @' 54' >2 ♯ - N)' / L' ; 12 4♯ 56 %5)' 4 %56 >' 6 2>5' & " # 3' ' M ' 764 4' 6 @@ 5 ;' 823 · ' %5' ; 9' 823' 6 ' %5' ; ' 6 @ W / ' 56 9' < AA @' 2< @)' 23@' @ BB @' 56 ' 1425 356 ' %5' C4@ AF A)' 56 ' %5' 62A♯ ; ' %4>' 2' 54< 3)' 76 3' ' %5' '& ' / W / / ' %4>' 5' ' 56 ' M' 5625' 8 2< 56' 2543 8 35' (' J ' / F' 76 3' 6 ' 82< 56' 3G 5 43' %4>' %5 0/)' /N' @ A : >' 8 ' %>4 8' %5' ? A5 3)' ' #4@ 2A0' ML' F ' %445' 8 29' ; ' @ BB @' 2' 56 ' %5' 4 %56 3 ' 3 8

(♯ WF' /N' B> 1 4 ' 62A♯ 56 >' 3$; ' 3' 6 ' ?65' %* ' ♯ / / / ' 56 ' 29)' 148 ' A 5' ' A29' 72 5 %4>' M' /L /L' 62A♯ @ ' 3' ; ' 3 G 59)' ; 5' 6 ' 4♯ > G > ' 25' 569' 623@)' F ' ♯ ' N ' M' L) * (F' ' M' % >)' 23@' B AA2> ' 4%' 84< ')' . ' F' / J' ! 4♯ F' /F' 74' 54' 6 8' 5625' ; A@ 56' 2' 5473' 7 56' 4♯ 5 ♯ /M' /W' % 6' 23@' 4' 6256' 345 > : 2A @' 5' 54' 56 FM' FL' 8 9' 4♯ 4%56 ' 3 7' 5 52 8 35)' 5 %8' ' N' FN FW' M' 345' 4' B 5' 354' 5> 2 >9)' ; 12 ' 5' ' B> 1 ' 4%' %5 F0' 65' ; ' ; ' 43' ' 23@ 4 >' 16 A@> 3' "Ui < FF' NN' 6 ' 7 25' 72 ' 2 ' ?> 25' @> 4B ' 4 %' 0' %2AA 3?' *30 / ' / ' 7 6 16' 7 > ' ; 4>3' 345' 4%' ; ' 34>' 4 %A 6 M' ON' 764' 25 56' 8 9' %A 6' 23@' @> 3< 56' 8 9' 4' >D+ / J' N' %4>56 7 56' 12 8 ' 56 > 4 5' 4' 23@ 7 25 >' * ♯ H♯ F0' 2' B>4B 5 25 43' 56 >4 ♯ %2 56' 3' ; ' 4 / *%♯ / ' /M' ' 5' 345' 148 8 3 43' 4%' 56 ' 0' 4 % 6> 5' ^ 3 ' FW' ? A59' 4%' 56 ' ; 4@9' 23@' 4♯ 4%' 56 ' "4>@ /0' 0 ' %A 6' 23@' 4♯ 123345' 36 > 5' 56 ' < 3?@4 %8 0 N /W' 5625' 7 ' 8 29' 62: ' %5' 3'+ @?8 35' (' / ' /M' 8 8 @ 25 A9' ' 143% >> @' 345' 7 56' 0 -8♯ / W ' 7 ' 62 : ' > @ 8 B5 43' 56 >4 ♯ ' 6 ' 4♯ ' (' /N F ' 7 > ' %2>' 4%%)' 2> ' 8 2@ ' 3 ?A ' ; 9' 4♯ 4%' 6> 5' *(' / ' F ' 62 : 3?' 8 2@ ' B 21 ' 56 >4 ' M' 4%' 6 ' 1>4 ' ! 4' F' /N' 56 ' 16 A@> 3' 2> ' B2>52< > ' 4%' A 6' 23@' 4 Z /F' ; 5' ; 9' 6 ' 473' 3♯ 6 ' 35 > @' 3' 431 /N' 647' 8 16' 8 4> ' 62A♯ 4♯ 4%' 6> 5' B >? ' *(' ' /N' B 5' 43' 162> 59' 56 ' M' 4%' B >% 153 ' FF' 7 564 5' 6 @@ 3?' 4%' 4♯ ' 34' > 8 43' ! 4' / ' ' > 8 8 ; >' 56 8' 5625' 2> ' 3' M' 2 ' ; 4 3@ ' ' FJ' 6256' 14 35 @' 4' 4%' 4: 3235' 23' 364 A9' 56 3?' & / F ' 56 >4 ♯ 56 ' 4' 4%' 56 ' : >A2 5 3?' 14 : 3235' / ' / ' /J' ; 5' 7 56' B> 1 4 ' 4' 4%' 6> 5' 2 ' 4%' 2' A2 8 ; / 0 ' 23@' 72 6 @' '%>4 8' 4 >' 3 ' 3' 6 ' 4 W' /N' 8 2@ ' 56 8' 7 6 5 ' 3' 56 ' 4♯ 4%' 56 ' A23 ; /J' / ' 6 ' 72 ' 1A456 >♯ 7 56' 2' : 5 > ' @ B5' 3' 4' & " (M*, ' N ' F0' > A9' 2' 4' 6 ;23@ 2>5' 564 ' 54' 8 ' FM ' & " M*, ' F' F' 23@' %' 345' 4♯ 8 ' 4 5' 4%' 569' ; 44<' 8♯ N ' 0' A 5' 345' 56 >' 3' ; ' 4♯ 4 5' %>4 8' 56 'N ' F0' ' 2 8 ' 6 ' 5625' 4' 4 5' 569' 5>23 ?> 43 ' %' / L' F ' 3 56 >' 0' 4 5' 56 >' 3' %>4 8' 569' ?65' . ' ' /J' > B 35' 5625' 94 >' 3 ' 8 29' ; ' M' 4 5 *(♯ F' /N' 4♯ 4 5' 56 ' 623@' 7 > 5 3?' 4%' 4>@ 3231 ' ' H+> ' 7 A♯ 345' %5' 6 ' 32 8 ' 4 5' 4%' 56 ' ; 44<' 4%' A %' & " %* ' ♯ F)' ' %5' 4%' 2' 74 3@' 1A 23 56' 2 7 2 9' : A♯ &)' + (' N ' F ' 8 9' 4 ♯ 62A♯ 8 2< ' 6 >' 4 ' 3' 56 ' "4>@' * ♯ F' /W' 2> 5' 2' + 7' 23@' 8 2< 5' 569' %5' 4%' # 4@' &)' #+ * ' ' L' %5' 345' 2?2 3 5' ; >2316 ' %' 564 ' 3+ F *%♯ / ' L' %4>' 564 ?6' ' 64 A@' %5' 4 8 7 625' 8 4> ' -8♯ F' J' 345' 4%' 74><' A 5' 239' 823' 64 A@' %5 ♯ H♯ 0' 543?' 2A 55A 8 8 ; >)' 23@' %5' ?> 25' 56 3?' ' & ' # * ♯ ' FW' 7 6 > ' ' %5' 56 3' ^ 5' ' C1A @ @' ♯ N' M' ; 5' 347' 9 ' > +4 1 ' 3' 94 >' %5 & ((' / F' / / ' %> 5' 4%' 569' %5' 7 A♯ ' 5' 43' 569' 56 >43 ' ' / ' /L' 23@' 62A♯ 143 8 ' ; 456' 4 ♯ 23@' %5 FM)' /J' 7 56' 8 9' @ 2@' %5' 62A♯ 56 9' 2> ' 5 &. D+ ♯ 62A♯ / ? : ' %> 5' 4%' 8 9' %5' %4>' 34%' 8 9' 4 ♯^ 5 ♯ 0' FJ' 5625' 569' 764A ' %5' ; ' 12 5' 354' 6 A4)' 0 M' FO' 52< ' 34' 564 ?65' %4>' 94 >' %5' $8 ' / F' FF' / ' FL' % 2>' 345' 56 8' 5625' < A♯ 56 ' %5' $8 #P♯ N FM' FM' * ' 544<' ; > 2@' 23@ 2 @)' 52< ')' 25)' 56 ' 8 9' %5' 5 %8 /N' FF' $8 PP♯ / J /' *%♯ / / ' FN FW' 0L' * 4 B6' 4%' > 8 256 27 3554' A25)' 23@ ; ?? @' 56 ' %5' 4%' *)' 5 %8 /0' N ' $8 'F 0F $8 ' /W' W' 7 6 > ' 56 ' %5')' 56 56 >' 56 ' 2?A FN' ' 56 9' %4 3@' 345' 56 ' %5' 4%' 56 ' "4>@' * * ♯ D M' 5625' 56 ' %5' 4%' 3' 8 ?65' ; ' @ 5>49 @' /F' A 5' 345' 3' > ?3' 3' 94 >' 8 4>52A♯ %5 W' FN' 764' 62A♯ @ A : >' 8 ' %>4 8' 56 ' %5' 4%' 56 ' @ 256^ L' / ' 6> 5' 3' 94)' 56 ' %5' ' @ 2@' ; 12 ' 4%' 3' /F' N' 2 ' 7 ' 62 : ' 8 239' 8 8 ; > ' 3' 43 ' %5 / 4> ' M)' / ' 347' 56 ' %5' ' 345' %4>' %4>3 125 43)' ; 5' %4>' 56 ' "4>@)' 23@' 56 ' "4>@' %4>' 56 ' %5 /M' 6 ' 5625' ' +4 3 @' 54' 23' 62>A45' ' 43 ' %5 W N ' 56 ' 7 % ' 6256' 345' B47 >' 4%' 6 >' 47 3' %5) J' FW' ; 25' ' < B' 3@ >' 8 9' %5' 23@' ; > 3?' 5' 54' ;+ / /M' 56 ' 148 8 3 43' 4%' 5 ; ' %5' 4%' 6> 5 /0' 0' 23@' 7 56' 7625' M' @4' 56 ' @ 2@ 148 ' ^ =' 4>)' 0' L' 7 AA 3?' >256 >' 54' ; ' 2 ; 35' %>4 8' 56 ' %5'

F *%♯ >' 54 ' 8 29' > 1 : ' 56 ' 56 3? ' @43 ' 3' 6 ' %5' -8♯ / F ' 76 16' ' 6 ' %5' % A3 ' 4%' 6 8' 5625' % AA 7 A♯ F /M' 6 ' 8 ?65' > 1431 A ' ; 456' 54' # 4@' 3' 43 ' D >' F ' 23@' 6 ' ' 56 ' 2: 4 >' 4%' 56 ' %5 3&(♯ ' F / ' 764' 62A♯ 1623? ' 4 >' : A ' %5' 5625' 5' 8 29' *(♯ / ' /L' 6 ' ' 56 ' 6 2@' 4%' 56 ' %5' 56 ' 16 >16' ! 3♯ / ' 0' ; 5' 2' %5' 6205' 564 ' B> B2> @' 8 ' ♯ ' F' 23@' ' 2 ; A ' 2A 4' 54' ; > @A ' 56 ' 764A ' %5 $, ' Z' 162 ♯ @ B 5 @' 2 ; 4 5' 56 ' %5' 4%' 4 ' & " ($8 ' H♯ FF)' 56 ' 64A9' # 64 5' @ 1 3@ @' 3' 2' %5' 62B ' *' ♯ F' 3' 6 8' 2A♯ 56 ' % A3 ' 4%' 56 ' # 4@6 2@' %5' & " (-8 ' M' F ' 5625' ' 8 29' B 2< ' %5) 2 ' ' 4 ' 2 65' 54' B 2< ! 4♯ N' /M' A 5' ' 148 ' %5' 54' 56 ' 56 >43 ' 4%' ?>21 ' /)' M' 5625' 7 ' 8 29' %5) 29' 56 ' "4>@' ' 8 9' 6 AB >' & " ! 4♯ / / J ' 62 : 3?' M' 54' 35 >' 354' 56 ' 64A 5' ♯ 30 N /W' 5625' 7 ' 8 29' 62 : ' %5' 3'+ @?8 35' & " " M*, ' J ' / ' ; 2>A 9' 72 ' 3' 56 ' 2>)' 23@' 56 ' %A2C' %5' &)' + . ' FM)' FJ ' 2A54? 56 >' 16' 2 ' ' 28)' C1 B5' 56 ' 4' -8 ' N' ' 56 ' 3 59' 4%' 56 ' B > 5' 3' 56 ' %5' 4%' B 21 ' ' M' F ' %4>' 76 16' ' 28' 23' 28 ; 2 2@4>' 3' %5 *(' ' /N' B 5' 43' 162> 59' 56 ' M' 4%' B >% 153 ' ! 4' / ' ' > 8 8 ; >' 56 8' 5625' 2> ' 3' M' 2 ' ; 4 3@ & ♯ %' /F' /)' ; 2B5 U @' 354' 43 ' ; 4@9)' %5' 4>' %> ' & # C4@' / '@29' 3' 76 16' 9 ' 12 8 4 54%56 ' 64 ' 4%' %5' *30 L' ' 7 ' 7 > ' 3 : >' 3' %5' 54' 239' 823' * ' L' / 0 ' 9 ' 62 : ' 345' > 1 : @' 56 ' B > 5' 4%' %5 (' 0' /)' ; ' 345' 3523 ?A @' 2?2 3' 7 56' 56 ' 94< ' 4%' M' ! 4' F' / 0 ' 7 > ' 2A♯ 56 >' A %' ;+ 15' 54' %5 & 0$ F' F ' 56 ' %5) 4%' 8 9' %5) 23@' %A 6' 4%' 8 9' %A 6' 0 ' F0' 9 ' 62A♯ 12>>9' B' 8 9' %5' M*, ♯ / ' / J ' b&0) ' / A ' 7 6 3' ' 2 8 ' @ 2@)' A29' 8 9' %5' ; @ ' 6 ' %5' *4 / / / ' 564 ' 6225' % 31 @' 8 ' 7 56' %5' 23@' 3 7 F / / ' 6 ' %5. 2> ' % A♯ 4%' 56 ' 3' 4%' 6 ' 94 56' (' FF)' /N' 2A♯ 8 9' %5' 2> ' 4 5' 4%+4 35 L' ' 3 56 >' ' 56 > ' 239' > 5' 3' 8 9' %5) 0 / L ' 56 ' %5' 564 ' 62 5' ; >4< 3' 8 29' > +4 1 ' %* ' ♯ F0 ' / 0)' 2' 4%5' 543? ' ; > 2< 56' 56 ' %5 ..(♯ / / ' 0 ' 34>' 647' 56 ' %5' @4' ?>47' 3' 56 ' 748 ;' @ 8♯ OW' W' 56 ' %5' 12 8 '54? 56 >)' %5' 54' ; ' %5 *30 Z♯ M' 2' %5' 4%' 6 8' 62A♯ 345' ; ' ; >4< 3' ! 4' / / ' FF' 23@' ?2 : ' 148 8 23@ 1431 >3 3?' 6 ' 0' & ! M0, ♯ F' F' %' 7 A5' 345' %4>?: ')' ; A45' 8 ' 4 5' 4%' 569' %5 F b&0) ' FF L' ' 6 2 : ' %4 3@' %5' 4%' 56 ' A27' 3' 56 ' 64 [' 8♯ L' L' 4' 56 9' > 2@' 3' 56 ' %5' 4%' 56 ' A27' @ 5 315A9' *4' Z♯ F)' 46' 5625' 56 9' 7 > ' B> 35 @' 3' 2' %5 / ' 0' 5625' 8 3 ' 2@: > 2>9' 62@' 7 > 55 3' 2' M' (+DZ♯ FL' A 5' 56 8' ; ' ; A455 @' 4 5' 4%' %5' 4%' 56 ' A : 3?' / J' /M' 3' 569' %5' 2A♯ 8 9' 8 8 ; > ' 7 > ' 7 > 55 3' 2' FJ' / / ' 2 ' 56 ' 74>@ ' 4%' 2' %5' 5625' ' 2A @' 0' W' / ' 23@' 56 ' 4' 7 > ' 4B 3 @' ' ' F ' &P ' /F) / ' : >9' 43 ' %4 3@' 7 > 55 3' 3' 56 ' %5 5 &' ' /M' 2' %5' 4%' > 8 8 ; >231 ' 72 ' 7 > 55 3' 5 %8 /F' FM' 62 : ' 9 ' 345' > 2@' 3' 5 ; ' %5' 4%' 4 ^' $8 ' N)' /W)' 56 > ' 7 2 ' @ A : > @' 54' * ' 56 ' %5' 4%' 56 ' B>4B 6 5' 2 2)' 23@' 7 6 3' 6 ' 62@' 4B 3 @' 5 ; ' 4$ F ' NF' 3' 56 ' 4♯ 4%' 56 ' 2A 8)' % ' /)' F *30 FA)' F0' 56 ' 7 4>A@' 14 A@' 345' 1435 2 3' 56 ' M) . ' / J ' / J ' 8 239' ; >4 ?65' 56 >' %5' 23@' ; >3 @' 56 8' (' ' / ' 5625' 2> ' 7 > 55 3' 3' %5' 4%' A 27' 54' @4' 56 8' 3&(♯ N' ' 764 ' 328 ' 2> ' 3' 56 ' %5) 4%' A % ' ! 4' Z' AJ ' 6 ' B> 3 < A @' 6 ' %5' 23@' 5 ; ' B 4BA ' ' ♯ / ' / /)' 7 625' 564 ' 5)' 7 > 5 ' 3' 2' %5 F /F)' @ 2@' + @? @' 4 5' 4%' 56 3? ' 7 > 55 3' 3' 4' & ' ' F ' NF' 9 ' 62A♯ @ 7 A♯ 3' %5' : 3' @292' *0 3 N' 0' *4326' 7 35' 23@ 8 2@ ' 6 8' 2' %5 & $ M*, ' F/ ' M' 6 ' 8 2 5 >' 62A♯ %5' 6 ' 2>' 56 > 4 ?6' & $ *4 /N' /)' 823' 5625' %5' 4%' 2' 74 823' ' 4%' % 7' @2+ 0 /0' W' 2> 5' 564 ' 56 ' % > 5' 8 23' 5625' 72 ' %5' ^ ..(♯ ' F' 2' 5 8 ' 54' ; ' %5 ' J' M' %4>' 354' ' 2' 16 A@' %5) 54' ' 2' 43' ' ? : 3' 5 &' F' F' 7 6 > ' ' 6 ' 5625' ' %5' < 3?' 4%' 56 ' * 7 ' %' FM' FN' ?44@' %' ; 4' ; 2@' 345' ; ' 3' %5' 5 %8 /N' F/

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P& S>'F=' 5' '*'3'"4>@-'8 >1 '7 '2> '345'1'
P-`≠/')/'7 A≠1'823'23@'; 2 5' '7 A≠1'¾47A'4¾'
6 2: 3
' 8 ≠F'LY5625'7 1< @'7648'56'"4>@' 62A≠1'
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/ b&0) ≠ FW'; 64A@'56 '6 2: 3'23@'6 2: 3'4¾'6 2D
: 3 '123345'1'56)'F' 3%*0≠F'M''_M'/L'
*30F/'FO'56 '74>A@'14 A@'345' '56 '; 44< '7>55 3
/ 4>'W'J'; 5' ¾56 9'123345'.≠A 5'56 8' 8 2>>9

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*4 /F'F/'6 'B4 > 56'.≠ 43'B> 31)' 3 / W N '
4¾' /F ' N'43>' 4 A≠ '¾ AA @'7 56'AA+ '1'4¾56 'B>4 @
>44'/L' '76 3'56 '7 1< @'148 56)'56 3'148 56'.≠
23' /F'F' 48' 62A≠272< '54' :>A2 5 3?1
& ")
5 3'/'W' 3'5625'9 ' 29'56 '52;A'4¾'56 '"4>@' '1
F ' / ' / '6 'B> 31 ' '7 2<)' 'B 16'1

*4N F' 62A≠6'5625'1'7 56' A8 ?659' 3 5> 15'6 8'^
%*'≠FJ'J' ¾'2'7 '823'1'7 56'2'¾44A 6'823'
≠NJ'F0 /7 A≠1'7 56'6 8'5625'.≠ 7 56'56
0 L' 6' '3 2>'5625+ 5¾ 56)'764'7 A≠1'7 56'8 ^
%≠ /F'0'56 3'647'124 5'564'.≠ 7 56'64> ^
$1'M' /'6 2>9)' 2>)' 1'564 '; ¾4> '56 '84 35
*2@ ' 64 A@ 28 5*91¾4>¾2 5 A f'@ A : > @'54' 2 35
Z≠ .≠ 7 56'@ : A)'6 '@ B 5 @ 2;4 5';4@9'4¾ 4

5 %8' >≠ >≠ A25 '7 AA 3?'54'.'B 4BA '> A 2 @'&2>'
$8 'H≠ /N' 34>'211 '¾2A A9)'; '7 56'94 >72?'
3&`&N'3' ' 62: 'A 2>3 @' 3' =' >9' 525 '54'; '1
/ & ≠M'L' 62: 3?¾44@'23@>2 8 35)'A 5' '; '1'
! 4≠ / '0'23@'; '1' 7 56' 16'56 3?'2'9 '62: '

%*'≠/ / '43A9';9'B> @'148 56'1'; 5'7 @48'7 56'
/W.' /N'A 2:'4¾1'; ¾4> '5'; '8 @@A @'7 56
/L M' 2'¾44A-'A B' 35 >' 354'1'23@' '84 56'12AA 56
/J / ' .≠ 4¾'2'7 ¾'2> '2'1435 3 2≠@>4BB 3?)'FW /0'
F 'FJ'764'6256'74 ^' 764'6256'1^ 6256';2;;A 3?^'
3&&≠ / /M'56 '43 'B> 216' 6> 54¾'1'345' 31 >5A9'
/' 3 ≠F'F'54' B 2<56 '?4 B ≠4¾#4@'7 56'8 16'1'

5* ≠F'L';5'54'56 8'5625'2> '1'23@'@4'345'4;9'
/' 4>)'//'/M';5 ¾239'823 854;1'341 54 8'

/ & ≠M'M';5'?4@A 3 '7 56'.≠ '?> 25'?2 3'
" " (
0≠M'0' :>9' 82? 325 43'4¾';'6 2>5'72' :≠1'
/' 3%*0≠/M'A ' <56 '"4>@)' <'6 '¾21'.+
'N ''/'A 5'569'A4: 3?'<3@3 '23@'5> 56'.≠B> D
>:
0F.'/' '8 ?659' 823.'?44@3 '4¾#4@' 3@ >56'.≠
%*'≠M'F/'; 3@'56 8)'43569'6 2>5)'23@'5 '56 8'
(&$≠ 0F'0'8 9'32 8 '1' :>9'@29' ';A2 B6 8 @
0L//' 23@'56'"4>@' 62A'? @'56 ' '23@' 25 %9'
!*≠/F'M'< B' 8 >19)'23@' 7 2 5'43'569'#4@'1'
.'M'N'7'7 A≠?^, '4 > A: '.≠ 54'B>29 >'
* ' / 'M'255 3@ 3?'.≠ B43'56 ': >9'56 3?'
'
* ≠F'W)';9'B25 35'.≠ 3'7 A≠@4 3?' <¾>'?A4>9'

*4 /N'F'6 '¾A 56'2A 4'2'2' 62@47'23@'1'345'
,3 NJ//'564 ?655625 5; >64 62A≠1'¾4> :>'
*30L' /'¾'9'1' 3'89'74>@)'56 3'2> '9 '@ 1 BA
/O' J' 4'62: ''A4: @'94)'1'9' 3'8 9'A4:-8≠F'F'
* ≠M'/' 62A≠7'1' 3' 3565 25?>21'8 29'2;4 3@^
//'FF'5472>@'56 '?44@3)'¾'564'.≠ 3'?44@3
/F'/F'> +4 1 3? 3'64B)'1' 3 523 5' B>29 >'
&≠ '/ '1 > @'5625'1'345' 3'2A456 3?'3'56 'A27'
*≠/'F ' ¾'9'1' 3'56 '¾2 56)'23@';'345'84: @
N' F'.≠ 3' B>29 >)'23@ 7 25 16'7 56'5623< ? : 3?F'
N'/M'52<'6 @54'569'@415> 3)'1)'3'56 8' '
F & ≠ '/N'1' 3'56 '56 3? 7 6 16'564 '62 5A 2>3 @
! 4'W'FN';' 5'56 '823)'; 12 '6'1' : >)'6256'23
' 'A 5';>456 >¾9'A4: '1' 35 >52 3' 5>23? >
/N' ¾4>'6 >'7 '62: '34'1'1 59)'; 5'?*'≠ ='/ / '8 9' 43)'@ B '345'34>';'7 2>9'4¾'6 '1)
≠3'FO' *44<56' 354'56 'B >¾ 15'A27'23@'1'
$)
/F' '143 @ >'6 8' 5625' 3@ > @ 16'.'4¾
33 >'

'5F+M'1(& A(1'&421' &G(%'2'&I!"!

('0/ /W'2'1'6 2>5)' '#4Z)'564 '7 A5'345'@ B '
a ≠0W' '7 56'6 8'2A 4'5625' '4¾'2'.≠23@'6 8 ;A'
B>5)'54'>: : '56'6 2>5'4¾'56 '.'43 '
$, $ ()'
+¾+ 'M'F'56 '"4>@'6256'2'1'7 56'6 'B 4BA'
R' >8 A '7 564 5'.≠?> 25' '56 '8 : 5 >9'4¾?4@A 3 '
' ' ' , ' ' ' ' H #
>4AA' 'L'% @' 8 '7 56'¾44@'1'¾4>'8 '
'N'FO'76 3'/62: '2'1' 2 43'7 A≠12A≠¾4>'56 '
-8'0'N'52A< 3?)'34>'+ 5 3?)'76 16'2> '345'.≠
,
$
(≠0 'F '54'6 8'5625'4>@ > 5;'6 '.≠2> ?65' 6 7'
2A:25 43
F *%≠/'/F' 3'?4@A9' 31 >59'7 '62: '62@'43>'1'
-3≠N'FF'5625'9 'B 5'4¾%1431 >3 3?'56 '¾4>8 >'1'
3&(≠/'FW'43A9'A 5'94 >'.≠ ;'2'; 148 56'?4 B A
' F '¾4>'4 >' ' '3'6 2: 3)'76 31'7 'A44<'≠/'RL'9'7 >'345'> @ 8 @'7 56'.≠5A 3?'
/ & ≠N /F';'23' C2 8 BA'4¾';A :>'3'.≠ 3'B >59'
! 4≠ H≠>≠A 5'94 >'1';'7 564 5'14: 54 3 '
≠ '/ 'A 5'6 8' 6 7'4 5'4¾'2'?44@'1';'74><
/ ≠ ≠ ≠ * ;'9'64A9' 3'2A≠ 8233 >'4¾'1
'/'56 9'2A 4'8 29';'743';9'56 '1'4¾'56 '7 :
F &≠F W'"45': C @'7 56'56 '¾A569'1'4¾'7 1< @
//' 4 ?65'9 '54';' 3' 2A≠ 64A9'1'23@'?4@A 3
, $
. '/0 '@ 1A2> 3?'56 '1'4¾'56 '# 35A '12 @'+49
$)'W+
(≠/J'W'56 'A27'4¾'56 '"4>@' 'B >¾ 15)'.≠56 '4 A
0/' / '23@' 33 >' 62A≠;'.≠ 354'56 '
%%%% M'/'A 5'56 9' 3@ > 523@)'23@.≠23@';'6 2A @'
M'0'56 '2; 3@231'4¾'56 ' 2' 62A≠;'1'54'56 '
5 ≠/ /0'6 >'23@' '64 A@'6 2¾56 8')'5 %8'+ Z+
aL' ' C1 B5'9';'1'23@';148 '2'16 A@>3'
$8'FF' F'76 3'1' 5> 3?56 3'56 9';>56> 3'
. ' '/J'>B 35'9 '56 >¾4>)'23@';'1'5625' 3'
'>≠ /J'@4' >>'%>4 8'56 '5> 56)'2 @'43 '1'6 8'
,
*30L'NM'76 16'4¾'94 '1'8 '4¾ 3'^
$, '/0'54'1)'2A≠5625'2> ' 3?4@A9'28 43?'56 8'
")'>
$8'/M FN'@ B'56 '5 B'4¾'6 '¾3?>'23@'1'8 9'543? '
' '$'&' '
5 %8'W)'//' 5' '1'5625' '54' 29)'2'?%5)' 62A≠;'%> '
$
*& M'L'¾'56 9';'64A@ 3' 3'.≠4¾2%%A 15 43'
(≠F' 'A 5' '12 5'2 7 29'56 >'1'%>4 8'
.(≠/FM'4>' :>'56 ' A:>'.';'A44 @)'4>'?4A@ 3'
;47A
'>+/L'74'54'56 8'5625'@>2 7'3 G 59'7 56'.≠
!*'//N'/@> 7'56 8'7 56'1'4¾'2'823'
*30F'/0'76 3'6';2@ 8 2@'2' 14 >?'4¾ 8 2A≠.≠
$
0≠N/'0' :3' 2>'4¾'.≠128 ' B' B43'43' 52A<'
*40'FM'2'2' 641<'4¾' 148 56' 3'6 ' 2 43'
(≠M0 / '56':2AA 9'2A 4'2>'14:>@'4:>'7 56'.≠
*'Z≠ J /'7 A≠ %5' >2 A≠A<'2'1' ' %5@' 3'2' :'
$ $
(≠/NN /^'5625'4 >'@2 ?65>'8 29';'2'1 543 '
≠FL'/M' 3'V 43'2'B>1 4 '1 543)'/ ≠F'M
'F '9 5'569'5 216>'345';'>84:@' 354'2'.≠
5 &≠M'O'56 9'A4:'54'B>29' 3'56 '1'4¾'56 ' 5> 5'
F/NF'56 ' 543 '56 ; A@>'>+ 15 @)'56 ' 2 8 ' '
; 148 '56 '6 2@'4¾'56 '.' (≠//L'FF'5 %8'
/F'/' $8'F ' /W' . 'N///' 1 'F'W'
.'/' //'2'?> 25' 6 5'<3 5'25'¾4 >'1'//'0
FM' FM'¾>'56 '56 3?'72'345'@43 ' 3'2'1
FM' FM'764 '625>@' '1';9'@ 1 5)'6 '7 1< @3 '
'//J'2'56 '725>'1'56 ' 2.' ! 4≠F /N)
'/'5625'1'7 56'2'14:>3?)';5'345'4¾'8 9' B>5'
0L'W≠ 76 3'564 ' 5'56 '32< @)'5625'564 '1'6 8'
M 'F'¾4>';64A@'56 '@2><3 '62A≠1'56 ' 2>56'
*'/L' 62A≠ 29'54'56 '84 352 3 '1')"7 1'F '
5&.' 'W'9 2)'56 9' 62A≠1'56 >'A B)'34'23 7 >'
! 4≠)' '#4@'128 .'6 '?A4>9' '56 '6 2: 3 '
5 '/' FM'56 >' '3456 3?'1)'5625' 62A≠345';'>D
: 2A @)'23@'6 @'5625' 62A≠345';'<3473)' $8' F F \'
/ *%'//'N' :>g-' 823'B>29 3?)'62: 3?'6 '6 2@'1'
, $
(≠M/'N' '7 A≠5> 5' 3'56 '.≠4¾'569'7 3?'
,
M*,≠F ' /W'564 ' 62*5'345'.≠569'3 ?6;4 >-'64)'
7 ¾)'34> >:235)' $≠ F/' * 'W W'¢ 'J'
! 4≠F'J'74'54'6 8'5625'.≠23' :A 14: 54 3 '
. 'F ' 0''62: '1' 34' 823-' A:>'
' *%≠/ ' /' ;5'.≠ 28 5A9'56';' 5?¾5'
,
- ('/' '56'7 1< @';A 5;'1'764 8'"@'2;64>'
/ *%≠D'/ ' 34>'1' 62A≠ 36 >5'<3?@4 8' 4¾'#4@)'
R]&≠0 0
,
('//J'0M' 31A 3'345'8 9'6 2>5'5@'.
%≠M'/ ' :>9'43 ' '?:3'54'1'L'/
$8'/F'/0'6 ' 2@)'52<'6 @)'23@';72>'4¾'1)'
-3≠>≠ ';5.≠A 5'5'345';'431'3232 @2 8 43?'94 '
*(+ +>≠8 4>5 %9'94 >'8 86)'23@'1'76 16' '@4A25>9'
/ 8 ≠F'0'34>'25'239'5 8 ' @'7 '2'1A4<'4¾'.'
! 4≠/'0'A 5':4 >'143:>25 43'6 '7 564 5'1

S

#

; . @

30 M' 00' 8 9' M 6' ' 8 25' 3@ @)' 8 9' ;A44@' 'Z 3@ @
5' *%# / ' N ' 23@ @ @' 2A# @> 3<' 56 ' 2 8 ' B > 5 2A ,♯ $!) ' '
$,)♯ / 0 / J ' 7 6 3' 2 8 43' 62@' ,♯ B > 5' 12 8 ' 2?2 3' *4 A0' /M' 64 7 % A5 ; 9' ' 8 23)' 7 6 16'@' 3 G ' A < ' 25 >^*
(♯ M L ' 8 2< ' 56 8 ' 0@' 4 %' 56 ' > : >' 4 %' 569' BA 2 > ' MJ ' F / ' 3' 8 9' 56 > 5' 56 9' ?2 : ' 8 ' : 3 ?2>' 54' @)
%*' ' / ' 0 ' A 5' 56 9' @ ' 23@' %4>? 5' 56 ' A27)' 23@ B >: >5'
♯ FN J ' 5>43?' @> 3<' ; 55 >' 54' 56 8' 5625' @ ' 5 FJ ' J ' 56 9' 2> ' @ ' ; 5' 345' 7 56' 7 3 '
%♯ FO ' FW ' @ ' 9)' 23@ ; ' @> 3< 3)' 23@ %2A#
NJ ' /F ' 56 9' 764 ' + @? 8 35' 72 ' 345' 54' @ ' 4 %' 56 ' 1 B)' 62A5 345?4' 3B 3 6 @)' ; 5' 62A# > A9' @ ' 4 %' 5
*, 5@ A ' ' 43' 4 %' 8 23' 12 8 ' 25 3?23@@ ' $8 ' W N ' FM' FW ' 6 ' ?2 : ' 56 8 ' 56 ' 1 B)' 29 3?) @ ' 9 ' @A# 4 %' 5'
NF ' %' 1 B' 8 29' 345' B2 ' C1 B5' ' @ ' 569' 7 A# ; ' *30' F ' / ' 76 3' 8 3' 62 : ' 7 A# @ ' 56 3' 74> ' N ' / ' 764 4 : >' @ ' 4 %' 56 ' 725 >' 62A# 56 > 5 M ' 0N ' 764 4' @ ' 8 9' ;A44@)' 625 6' 5 >32A A %
W ' W ' %' 239' 823' 56 > 5)' A 5' 6 8' 14 8 ' 54' 8 23@' @ /L ' / / ' 1 B' 8 9' %256 >' 625 6' ? : 3' 8)' 62A# ' 345' @ ' ^
/ F ' / ' N ' 23@ @ @' 2A# @ ' 56 ' 2 8 ' B > 5 2A @> 3< AA ' FO ' 56 @4)' 2 4%52 9 @ ' 3' 2* &* & -2%1<*' 4%' 8 /F ' / ' 23@ 62 : ' ; 3' 2A5 8 2@ ' 54' @ ' 354' 43 ' B > 5' W+-3♯ 0 ' /L ' ; ' 345' @ ' 7 56' 7 3 ' 7 6 > 3' ' C1
/' 3 ♯>+ W ' 56 9' 5625' ; @ ' 2> ' @ ' 3' 56 ' 3 ?65' & '♯ /W ' M' 2 7 ' 56 ' 7 4 8 23' @ ' 7 56' ; A44@' 4 %' 2 35 $,
0 ' H♯ FN ' 4' # 4@' @ ' 4 5' 56 ' 8 23)' 23@' 6 ' BA21 @ +MMO,♯ /N ' FO ' 162> 45' 7 6 A)' 56 9' @ ' 56 8' 6 2: A9
F b&0) ' J ' F ' @' ' A < ' 56 ' @ ' 4 %' * 6)' %4>' 6 ' @ % > 4 A9
(♯ M ' F ' 2 ' 8 4< ' ' @ ' 2 7 29)' 4' @ ' 56 8' 2 7 29' / /N ' 2' 27' 5' 23@' %A @)' *4>@23' 72 ' @ ' ; 21<)' 0 '
5 %8' / ' /F ' 56 ' B > 5' @ ' 6 8' 354' 56 ' 7 A@ >3 ' . ' /L /M ' # 2AA 4' @ ' 56 8' %>4 8' 56 '+ @? 8 35' 25' $ $ (
%♯ F ' F ' 564 ' 2>5' 2' 7 %5' @ ' 5>2 : > 3?' 6 >' 729 ' $)' \+
♯ N ' A0 ' 56 ' 325 43 ' 2> ' 2 ' 2' @ ' 4 %' 2' ; 1< 5' 7$8 ' FF ' NN ' 6 ' 7 25' 72 ' 2 ' ?> 25' @ ' 4 %' ; A44@' $)' #+
$ ♯ F ' F ' 8 9' @415> 3 ' 62A# @ ' 2 ' 56 ' >2 3' ,♯ ML ' L ' 56 ' 6 2: 3 ' 2A 4' @ ' 25' 56 ' B> 31 ' 4 %' # 4@' 8(♯ / ' /L ' 56>4-' @A 3 ' 56 ' 64 ' @ ' 56>4 ?6' ' $ #
%*' '♯ /J ' / ' 2' %44A 6' 4 ' ' 12A2 8 59)' 23@' 56 ' 143 D 5 35 43 ' 4 %' 2' 7 % ' 2> ' 2' 1435 3 2♯ @ ' FW ' /0 ' $
(♯ / / J / / J ' 564 ' B 55 5' 27 2 : ' 56 ' 7 1< @' A < ' @ ' $ ' ' #'
+ ⁵0L ' / / ' 56 ' "4>@' 62A# 25 %9' 569' G ♯ 3' @ '$' ' ' %
/' & ♯ M J ' 354' %44A 6' A 5)' 7 6 16' @ ' 8 3 3' B >@ 5 43' $
- *'♯ F ' F / ' 23@ @ ' 62A# 1A456 ' 2' 8 23' 7 56' >2? ' $! $
(♯ MJ ' /F ' 23@ ' 72 ' 56 ' 43?' 4 %' 56 ' @ %*' ♯ F ' F / ' %4>@)' 23@ ?A 554 3' 62A# 148 ' 54' B4 : >59' ♯ FN ' F ' 6 ' 2>56' 62A# > A' 54' 23@ %>4' A < ' 2' @ FL ' / ' 74 ' 54' B> @)' 54' 56 ' ,♯ 4 % B6>2 8)' ' * (' / ' 0 ' 272<)' 9 @ ' 23@ 7 B)' 647♯ 9 '@> 3< > ' $!
. , ♯ / ' /W ' B> 31 ' 25 %4> 5> 3?56)' 23@ 345 %4>' @ ' $8 ' F / ' N ' A 5' 94 >' 6 2>5 ' ; ' 4 : >162>? @ ' 7 56' @ ' * ♯ / ' / ' A 5' ' 72A<)' 345' 3' > 45 3?' 23@ @ $ ( )' +
♯ NN ' FW ' 5625' 2 56' 54' 56 '@ B' & ' @ ' 7 A# @>9' B' 0M ' 3 56 >' A 5' 56 ' 3 16' 29)' / 2 8 ' 2' @ ' 5> ' $8 ' F ' / ' %' 3' ?> 3'5>)' 7 625' 62A# ; '@43 ' 3' @ ^* $ ( )' #+
/ b&0) ' / ' N ' 23@ * >4 ; 42 8 - ' 623@' @ ' B' %*' ♯ /W ' FF ' ; A# 2' ;>4< 3' B 5' 5' @ ' 56 ' ; 43 ' @ 8♯ W / / ' 56 9' 29' 4 >' ; 43 '2> '@ ' 23@' 64B) ' A4 5' Å 8% 0♯ /M ' FJ ' 56 ' ?A4>9' @ ' 54' 6 '32 8)' (♯ FJ F ' ' JM ' L 3⁵*'♯ /0 F '2' 74>@' B4< 3' 3' @ ' 2 43)' 647 ' ?44@' ' 5' 7 ⁵FN N0 ' 54' ? : ' 56 8' 8 25' 3' @ ' 2 43 ' '8 ' /F ' NF
'3 ' F ' N5 ' 7 ' % . &' ' 56 ' ,♯ > 72>@' 4 %4 >@ @ ' ' * ♯ >+M ' '4 %' 5 8 ' 6> 5' @ @' %4>' 56 ' 3?4@A9 ⁾ * ♯ /0 ' L ' 3' 4 %' 8)' 2 ' 4 %' 43 ' ; 4>3' 4 5' 4 %>% ' 5 8 ' (♯ ^' 3' .(' 2 43' 7 ' 62A# > 2B)' %' 7 ' %2 35345 * ♯ /)' W ' > 3@ >' 56 > %4>' 54' 2A# 56 >' , ' 5> ; 5 ' & M*, ' N ' / / ' 4>' 764' 8 2< 5656 ' ,♯ 4>' @ 2%)' 4>' ; A 3@' ^ &♯ L ' / /' 72 ' 2 ' ,♯ 823)' 4B 3 5 ; ' 345' 6 ' 8 4 56' %*' ♯ / ' L ' EE 3569' 8 4 56' %4>' 56 @ ' 3' 12 ' 4 %' 2A# ' 0 ' M ' 23@' 56 ' 543? ' 4 %' 56 ' @ ' 62A# 3?' 0 ' W ' 23@ 2 ' 2' 6 B' ; %4> '6 >' 6 2> > ' ' ,+ 0M ' / ' 6 ' 7 2516 8 3' 2> ' ; A 3@)' 56 9' 2> ' 2AA@ ' @4? ' 4> ' / F ' F ' 12>> @' 2 7 29' 54' 56 '@ ' @4A)' : 3' 2 ' A @ F ' F ' / M ' 56 ' ,♯ 2 ' B 2< 3?' 7 56' 8 23- ' : 4 1 # *4 F ' W ' 9 5' 6 ' 62A# B > 6'%4>' : >' A < ' 6 ' 47 3' ,♯ (♯ L ' / 56 9' ; 12 8 ' 4 ' , ' %4>' 56 ' 2>56' 5 & ' / 7 A# 14>> B5' 94 >' @)' 23@' B> 2@ ,♯ 43' 94 >' %21)' : 3' 56 ' @ 4 %' 94 >' 4A 8 3' % 2 5 ' 3&(' L / @4' 14 35 2A# 56 3?' ' ; 5' , ' 54' 7 3' 6> 5 # ' ' ' ' / ♯ F ' L ' 6 A %5 56' B' ; ??2>%>4 8 h^ ' (♯ / / W)' $ 5 ' / ' F ' 6256' 345' >445' 3' 6 8 A%)' ,♯ %4>' 2' 7 6 A ' 0' F ' W ' "4>@' %4>8 @' 823' 4 %' 56 ' ,♯ 4 %' 56 ' ?>4 3@ ⁻ / J ' ,♯ 564 ' 2>5)' 23@' 354' , ' 62A5 564 ' > 5 >3 / L ' FW ' 54' B 2< 54' "4>@' 764' 28' ; 5' ,♯ 23@' 2 6 / $ ' F ' / ' 764' 123' 14 35' 56 ' , ' 4 %' *214 ; ^ /' ' J♯ L ' 6 ' >2 56' B44>' 4 5' 4 %' 56 @ ' (♯ / / W ' *4 F / ' FM ' 56 9' 62A# A ' @ 473' 2A ' < ' 3' 56 ' ,+ N ' /0 ' 2A# % ;' B > 6)' 823' 62A# 5 >3' 2?2 3' 54' ,♯ ('W ' 0 ' A 5' 56 ' 3 8 9' A29' 8 3 ' 6434 >' 3' 56 ' , FF ' FJ ' 2A# 5625 ?4' @ 473' 54' 56 ' ,♯ 62A# ; 47 J 62A# ,⁶B>2 '56)' 62A# 5' @ 1A2> ' 569' 5> 56^ / /N ' 6 ' > 8 8 ; > 5656 25 7 ' 2> ' , ..(♯ H♯ F ' 2A# ?4' 54' 43 ' BA21)' 2A# 2> ' 4 %' 56 ' ,+ /F ' W ' 56 3' 62A# 56 ' ,♯ > 5 >3' 54' 56 ' 2>56' $8 ♯(+ H♯ 7 ' 62 : ' @43 ' 5625' 7 6 16' 72 ' 4 >' , ' 54' @4' " " $ ♯ /F ' / / ' 5412 6 32 8 ' 54@ ' 56 > =0> M /F /' b&0) ' L ' FW ' 7 A# #4@' ,♯ 43' 2>56' ^ F' 3%*0 ' M /L F ' ! 07?=N / 6 '23 7 > @' @ ' 2 8 43?' 8 3 ' 473' B 4BA ' (' N)' L ' 564)' "4>@)' 43A9' 8 2< 5' 8 ' ,♯ %3' 2% 59 ML ' /M ' 56 ' 6 A# 7 6 16' # 4@' @ > 56' 54' @ ' 3)' 9 2' 56 ' "4>@' 7 A# @ ' 3' 5' %4>' : >' 23@' : >' / W ' N ' 56 9' 723@ > @)' 56 9' %4 3@' 34' 1 59' 54' @ ' 3' /F)' 0 ' 74 ' 8)' 5625' @ ' 3' 56 ' 5 35 ' 4 %' ! @2> / F /N ' 8 9' > 5)' 6 > ' 7 A# ' @ ' %4>' 62 : ' @ > @' 5 %*' ♯ / ')' 764' 4 ' 6 2>< 3 56' 54' 8 ' 62A#@ ' 2% A9' ♯ /N)' 764' 28 43?' 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(' 9' / J' 76: 6 i 56 >' 82 5 > ' 64 '7 56' : 4A 311'
!)ǂ F' W' ' 7 AA i 56 ' ;4 ' 7 56' ?A4>9)' 2 56' "4>@'
$8 ' /' 0 ' 6 ' ; 256 i' 56 '6 3?>9' 7 56' ?44@' 56 3?'
F N '* ' 72C @' 5>43?' 53' B > 5 i' 7 56' 7 @48'
. '0 0' ' 769' 6256' 2523' i ' 56 3 ' 6 2>5' 54' A ' 54'
56 ' 4A9' # 64 5'^
J /W' 5625' 564 ' 8 ?65 5; ' ǂ' 7 56' 56 ' 4A9' #64 5'
! %Oǂ /0 / ' #4@' 4%'64B i 94 ' 7 56' 2AA+49' 23@' B 21 '
b/8' N' / ' 6 '2 1 3@ @)' 5625' 6 ' 8 ?65 i' 2AA' 56 3?'
' "
/ ǂ F/' 345' 56 'B 55 3?' 2 7 2 : 4%'56 i)' 4%'56 % 6
' " ' ' '
F' *%ǂ W / 'A 5' '1A 23 '4 > A: '%>4 8' 2AA i)' 4%'%A 6'
-3ǂ 4ǂ N' 34>' A 5' ' ; '431 ' 328 @' 2 843?' 94 '
7 ǂ / F/ ' 76 > %4> ' A29' 2B2>5' 2AA i)' > 1 : '56 '74>@
' " (
5+ ' /N' '56 9' 2> ' 2AA' 54? 56 >' ; 148 i ' 0 '
+ ' MN)' M ' 2AA' 4 >' > ?65 4 3 '2>' 2 i)' >2? '
' A) ')' 34' 5> < >)' 34>' ?> @9' 4%i ' A 1>)' L' A 8
/' W' / ' >ǂ F
'ǂ FF' / /)' 6 ' 76 16' i)' A 5' 6 8' ; i)' 5 AA
'
$ ǂ F' F ' ; ' > ' 94 >' 3' 7 AA i)' 94 ' 4 5'
/ @ +' F/ ' F ' 62 5 564 ' i)' 8)' ' 8 3 ' 3 89' ^ '
62: i)' 56
/ F ' FL' J ' %' <' ; 3=7 Aǂǂǂǂǂ ; i' 4%'56)' ; 5' %'
%4> 2< ' 6 8' 7 Aǂǂǂǂǂ 12 5' 4%%'4>' f >)' F F ' /0' F'
. *' / / W' 123 5' 564 ' ; 9' 2>16 3?' i\ 4 5' ǂ 4@' ^ 143 5'
564 i)' 4 5' 56 '@A 8 i ?659' 354' B >% 15 43' ^
5 / ' / ' FL' 56 9' 62Aǂǂǂǂǂ + ' 9 8 2>A9)' ; 5' 56 9' 62Aǂǂǂǂǂ
' 345i' 8)' ! ǂ 0' M' 8 ' W' 0N)' M)
ǂ 00' M' <' / '56 ' "4>@)' 76 A ' 6 ' 8 29' ; i
MO' /' ' 28' iP 4%' 56 8' 5625' 4 ?65' 8 ' 345)' E)
(ǂ F
5 ǂ /')' 6 ' 72 i)' 7 56' 16 A@' 4%'56 ' 64A9' #64 5
W' W' <)' 23@' 9 ' 62AA i ' $8 ' / /' J
*30 /' N/ ' 23@' 2 56)' 7 ' 62: i ' 56 ' 2 ' NO'
3&(ǂ ' Zǂ ; i)' 3' 6 8)' 345' 62: 3?' 8 3 ' 47 3' > ?6D
5 4 3
' # $
WMO, ǂ L /J ' 56 ' 8 2? 1 23 ' 2 @)' 6 '56 i)' 4%' #4@'
/ /L' 52 ; A ' 7 > 55 3' 7 56' 56 i 4%' #4@)' C ' J /)'
/ @ +' /F' / ' 8 9' A 55A i)' 56 1< >)' F >40' / / '
X ǂ L)' 76 3' '143 @ >569' 6 2: 3)' 74><' 4%'569 i)'
+ ' 0L' J' %'52< ' 2729' 56 'B 55 3?' %4>56' 4%'56 i '
8 9'' //)' F ' %' ' 7 56' 56 'i ' 4%' #4@' 12 5' 4 5' @ : A '
'
C ' J' FN' 54 i)' 5>23 ?> 43)' 23@' 82<' 23' 3@' 4%
3
$8 ' /N' FL' 7 6 56 >' 6 ' 62: ' %% 1 35' 54' i
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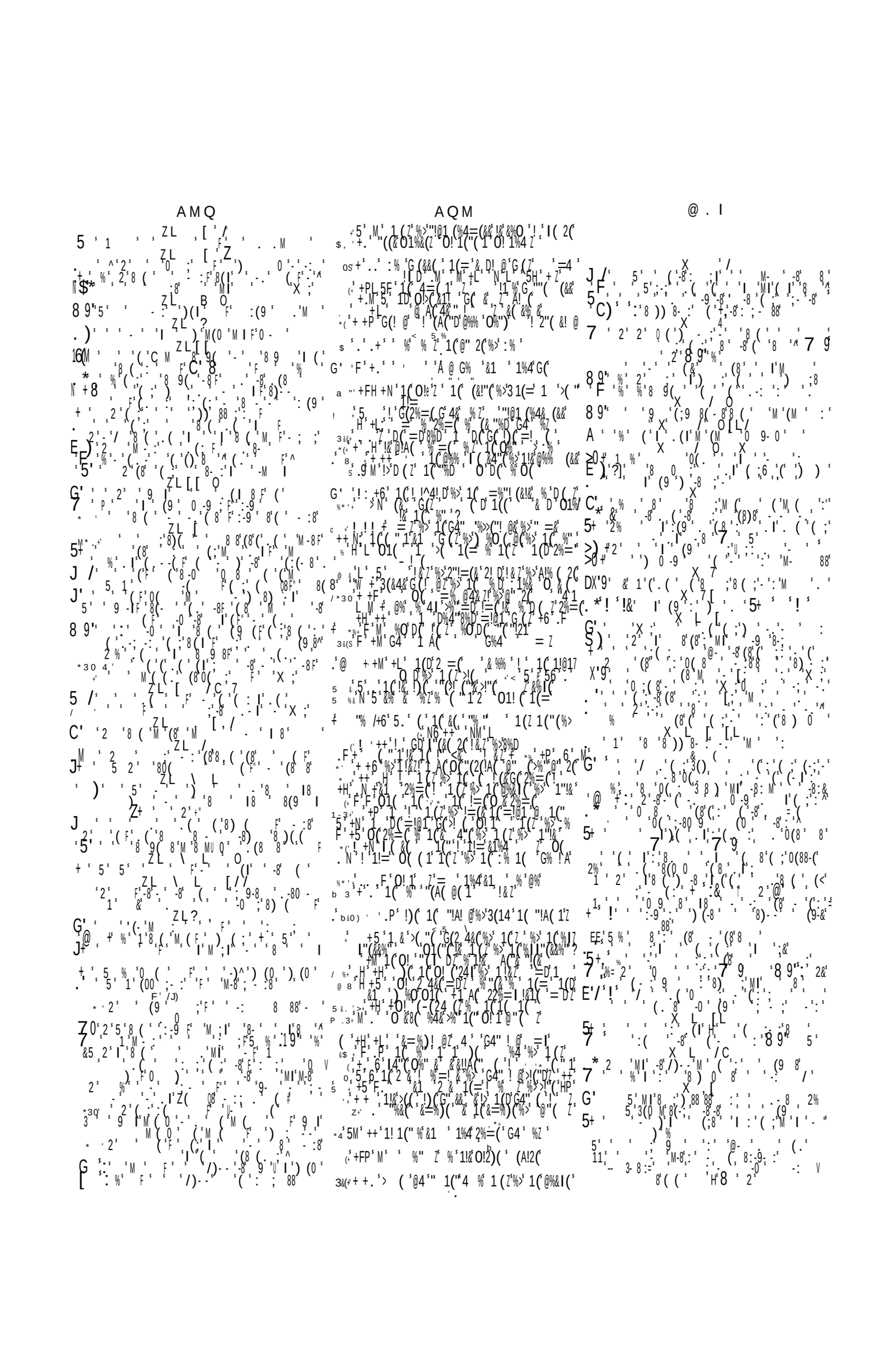

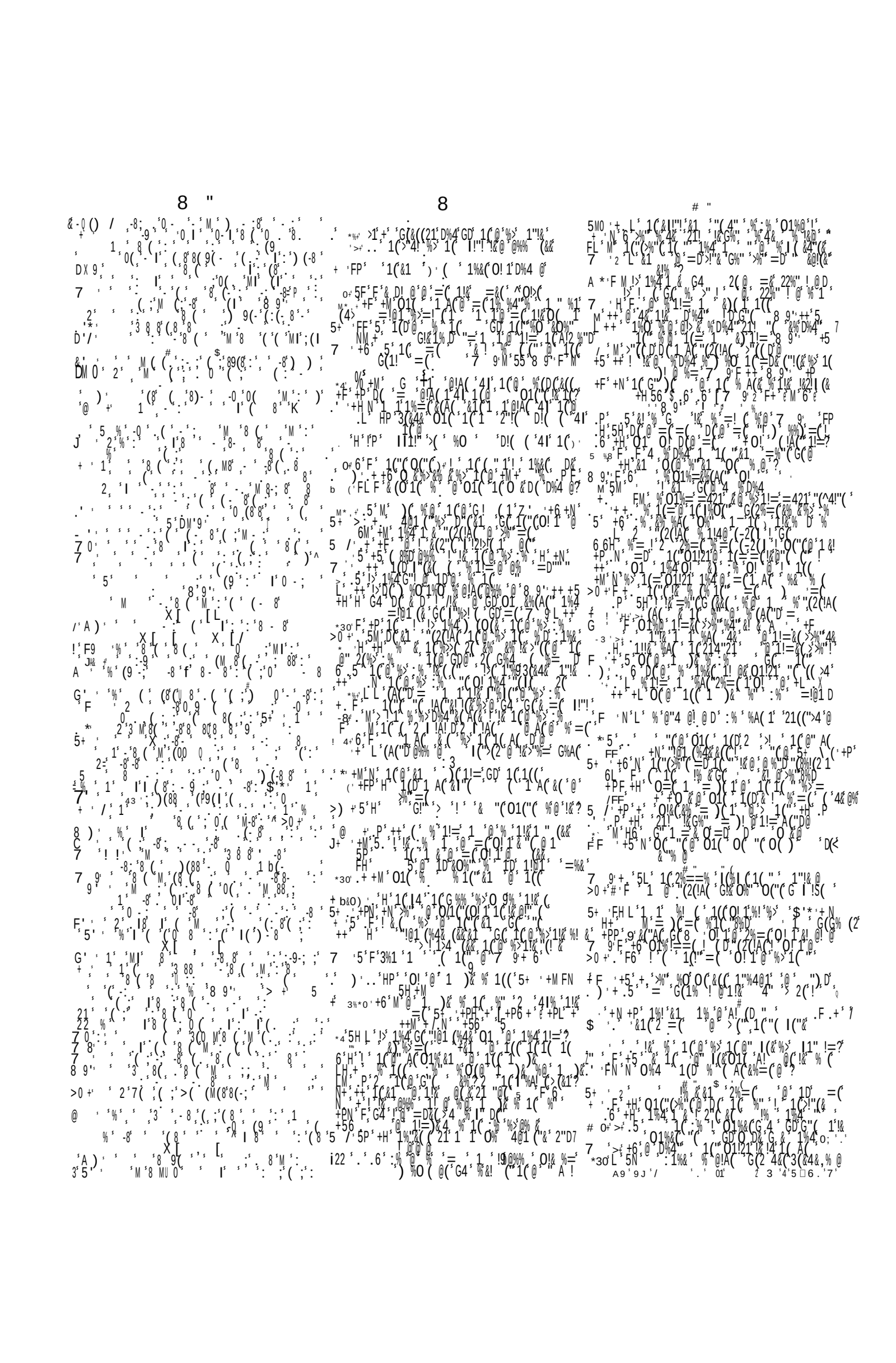

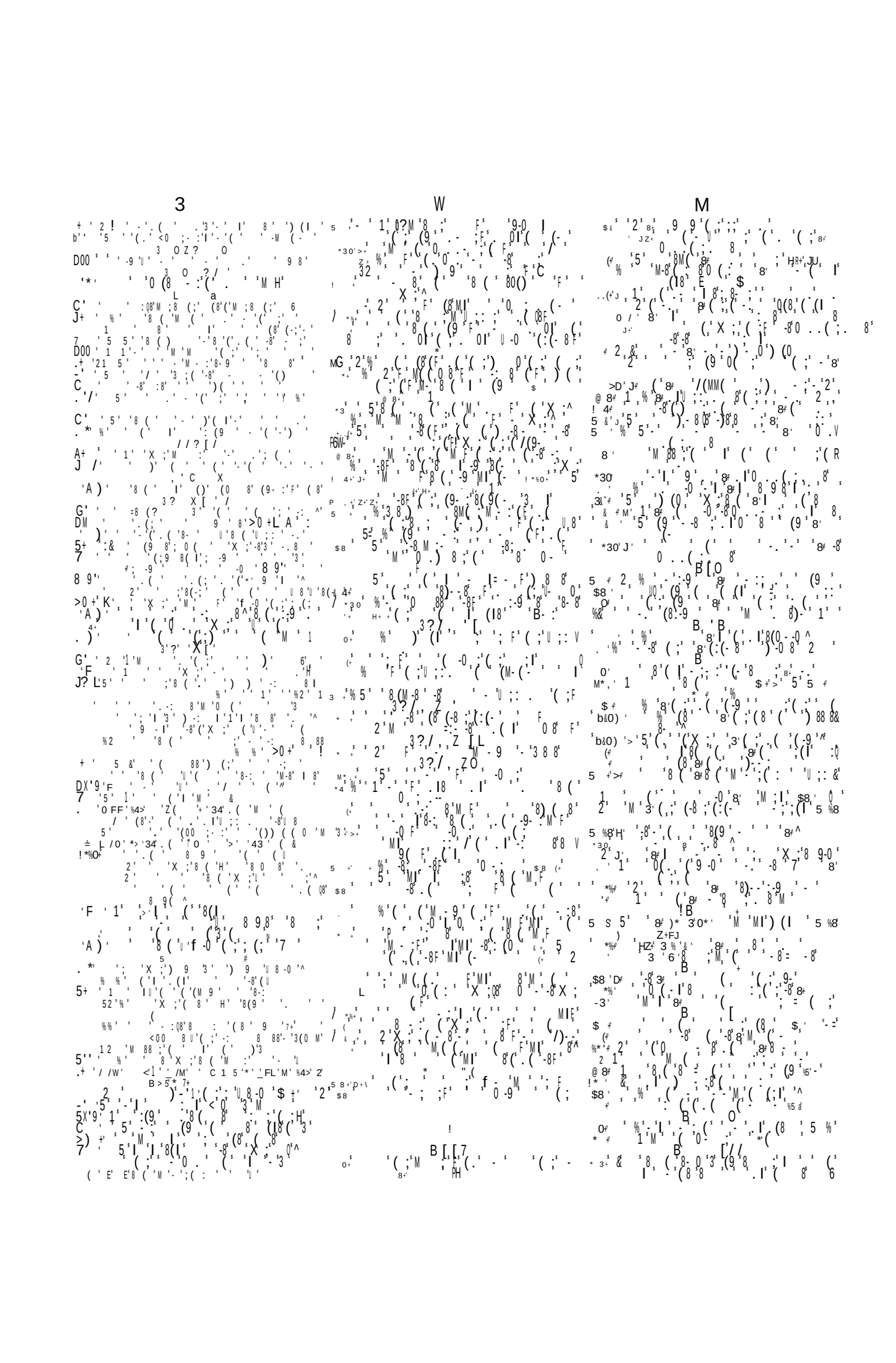

M S J C . S

=0 ; 0 ' /M' /W' ; 2%8' 2@)' '56 '569' *%'54A69'
#2*16[
b 3-' J /W' ; 5564 ' 2>52 #4@'?>21 4)' 4%'?> 25'3-
(' /W' W' ; -569' 442>: 4 'A4: 3? A ' JF' F
' F/ ' 6 ' 6256 6 7 @ 8 ' 6 ' 82>: A4 'Q
LL' //' 62M569'A4: ? LX' ; '@ 1A2> @' 356 ?>2: + 8
AW' F' %4>' 6 ' 8 >1 % A 8 ' ' ?> 25'5472>@ ' '
ANA' 'A 5'56 ' > ?65 4 ' 8 5 ' 8)' 5' 62M ; ' 2 8-
*(-' ' /F) B 5'4 ' 8-' 6 8 ;A 3 '4% 8 3@)' 8 <3 '
&&' N' 2%5 >'56 ' 8-' 4% #4@ 4 >' 2: 4 >' 2BB 2> @
F' -' / W ' 54' ?4@A 3 ' ;>456 >A9' 8-' 54' ;>456 >A9' 8'
162> 59
! $
3' /F / ' #4@ 2@)' ? 5'56 ' %* '569' 8-' . 'W.' '
$ -' / ' ' ' 7 AA @ B2>5'54' 8 3 ' 473' A23@ 23@ 8-
(-' FF FW' 2M' 8-' 4%'325'43 ' 62M' 74> 6 B ; ' %4> ' 56 '
& '-' >-' J' > @ 8 @ '4 5'4% ' : >9' 8-' 23@ 543?
/N' M' 56 ' : >A2 5 3?'?4 B A)'54' B> 216'54' : >9' 8-'
!
0 'N/ ' F' 56 > ' 128 ' B : 3' 7 AA %2:4 > @ 8 ' /L'
* ' N' /' 6 2>' 56 ' 74>@)' 9 ' 3-' 4% &2 62 '
! #
0-' /W M' 8-' 62M' 148 ' 4 5'4% 56 -')' M')_ 0' 5A
M' /)' 8-' 5625' > ?3 @ 3' @48)' ; %4> ' 56 > '
> ?3 @ 239' 8-' 4: >' >2 A)' / 3 %* 0-' /' N '
0 -' /W /N' 62M' 29)' ' 7 AA 5 2' 8-' 4: >' 8 '
$,)-' J' L' 56 '5> ' 7 35'54 234 35 2' 8-' 4: >'56 8
/W M' 3'564 '@29 ' 34 8-' 3 >2 A)' ; 5' : >9' 823'
@ @ > ?65' 3 6 ' 473 9)' ' /' E /J' /' ' F/ F0
/ -' /)' FN' 56 ' B 4BA ' 64 5 @ 23@ 2 @)' #4@ 2: '
56 ' 8-' F 0 -' /M' /M' F b &0) ' / /' /F'
F' 3 %* 0-' F ' / /
/F /F' 76 3'56 ' "4>@' 94 >' #4@ 72 ' 94 >'N0' F '5625 ;47 56'@473'43 6 ' 8-' 54' @> 3<)' '
/' b &0) ' F/ / '564 ' @ @ 5 ;A2 B6 8 '#4@ 23@ 56 ' 8-'
*4' N' /L' ' 5 %5'54' 29'54'2 -' 564 ' 2>5 7 1< @ ^
' F' M / 5 8 9' 8-' 4 ' 8 9' 64A9' 6 AA 4% V 43
0 F' 6 2>< 3'54' & .' 1>9)' 8 9' 8-' 23@ 8 9' #4@)' LN
FN W' 23@ 56 ' 8-' 4%'?A4>9' 62M' 148 ' 3)' J
/NJ' F' A 5'56 ' 16 A@> 3' 4% V 43 ' ; '+49% A' 3'56 >' 8-'
%* ' -' L) /0 ' ; 9' 8-' > ?3)' 23@ B> 31 '@ 1> '+ 5 1
FN' F/' 8 9' 43)' % 2>'564 '56 ' "4>@' 23@ 56 '8-'
. .(-' / ' F ' 1 > ' 345'56 ' 8-' 34' 345' 3' 569' 564 ?65'
-' NJ F ' 5' 62M ; '5 ; 9' 3 > 3?%256 >)' 23@ 56 >'
G 3
M ' '23@ 8-' 54'56 ' ; >?653 '4%'569' > 3?
0-' F' F/ ' 6 ' > 84 : 56' 8-' 23@ 55 56' B' 8+
* -' 'N' >2 A 62M 2 ; @ ' 8 23' 9 @29 ' 7 564 5'2' 8+
/ / / /' ?2: '56 '2<' 3 8 3 '23? >)' 23@ 544<' 6 8
5 8-' N' J' 769' @4 5'564 ' 1>9)' '56 > ' 34 8-' 3'56 '^
P . . 8 ' J J ' ; 64@)' 569' b -' 148 56'54'56 '5 -' F /)0 '
8 ' F ' F' 29 3?)' 5625'6 ' 6 8 AA ' 6> 5'2' 8-'
*30' M' /0' 54' 82<' 6 8' 2 8+
/L' W' A25 ' 2 @ 54' 6 8)' 2>5'564 ' 2' 5'56 3' ^
/ J /F' 764 4 : >' 82< 56' 6 8 AA 2' 8-' B 2< 56'
2?2 3 5' 2>
/ ' / /W' 0 * 6' 354'56 ' -' 5 >32A)' 8 84>52A
F F' 5625' B>29 > ' ; ' 82@ '%4>' 8-' 23@ %4>' 2AA
M /0' %' 4%'<' "4>@' 4%A4>@ ' ' /W /N' E / J /M'
! 4-' / / F ' 7 > ' 345' 2%>2 @ 4%'56 '%1' 148 823@ 8 35
/ 5'F / ' 76 56 >' 5 ; '54'56 ' 8-' 2 ' B> 8
/W' 6434 >' 2AA 8 3)' % 2>' #4@)' 6434
-' / ' 0' * ' 6> 5)' 56 ' B> 31 ' 4%' 56 ' <' 4%' 56 '
2>56
J / / ' 56 9' 62@ 2 8-' 4: >' 56 8)' 56 ' 23? A
! #
M * , -' Z-' D-' 23@ 9 ' 62M ; '54' 8 '2' 8-' 4%' B> 5 '
/ -' /L) L' 23@ 7625' 123' 6 ' 62: ' 84> ' ; 5'56 ' 8-' ^
/ b &0) ' / / / / 7 AA > A9' 5 3@ 56 ' 8-' %>4 8' 56)
' /' 0
/ 3 %* 0-' FJ / / ' 2AA' 3' 6 2: 3' 23@ 2>56' '56 3)' 56 3 '
'56 <' ' "4>@)' -' FF' FL' 5 -' D / '
b &-' Z-' 0' %4>' 56 9' 62: ' 345' >: @ 56 ' 3' 56 >' %5'
` -' /N /M' '56 ' 56 ' 8 23' 5625' 0 @ 62<' %5' ^
/ J F' 56 9' 62M % ?65)' %5' 2?2 3 5 %1' 5 -' FN' W
5 %8' / ' L' $ 8 J &' /
= ' %-' /L J' 1431 > 3?'2' %5' 54' ; A@ 23@ 54' BA235' 5
N' /W' 56 ' 84 5 ?6 ' > A 56' 3' 56 ' %5' 4% 8 3)
F0) F
W' FW' 56 ' 84 5 ?6)' 764 ' %5' ' 23' : >A2 5 3?' %1'
5 -' F' > B 35)' %4>' %5' 4% 6 2: 3' ' 25' 623@)' N /W)
/ ' W'
N' L' 6 7 @ 6 8' 2AA 56 '%1) 4%'56 ' 74>A@)' $8 ' N' 0
F ' B> 216 3?'56 ' ?4 B A 4%'56 ' %5' J ' 0
M' / ' 569' %5' 148)' 569' 7 AA ; ' @43)' &5 8 ' / / ' F)

5 -' ' ; 5' <' 9 '% > 5'56 '%1'4%' #4@)' $ 8 ' /F /
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/ N ' 62M 6 3 '2' 56 ' 3' 3'56 %5)' 4%'56 >' '256 >
F0' N' 36 > 5'56 '%5' B> B2> @ %4>' 94 '%>48' 56 '
$ 8 ' /W) '%4>' ; 64@'56 ' %5' 4% #4@ ' 7 56 3' 94
F ' NF-' > 8 8 ; >' 8 ' 76 3' 564 '148 5 354'569' %5'
*30' ' ' C1 B5' 2' 823' ; ' ; 48' 2?2 3)' 6 ' 123345
'56 ' %5' 4% #4@
/L' M' 89' %5' ' 345' 4% 56 ' 74>A@)' % 89' %1' 7 >)'
; 5'347' ' 89' %5' 345' %>48' 6 31 '
. ' ' ' 7 A5'564 ' > 54> ' 2?2 3'56 ' %5' 54' >2 A ^
/' *%-' /0' FN' 76 3' 6 ' 62M 62: '@ A : > @ B 56 ' %5'
*(-' ' / ' ; 256' 5>23 A25 @ ' 354' 56 ' %5) 4% ; ' @ 2>
43
'-' / / /0' 8-' 4% 56 ' 74>A@' 2>' ; 148 A' 4% 4 >' "4>@
! # " (h
0-' 0 F ' 6 ' 72n @ B4 @ %>48' 6 '-' 56>43 '
! ')
%* '-' FW' ' ; 5 56 ' 8-' 4% 23' 3 89' 2>' @ 1 5% A
$ 8 ' W' NO' 5644' ?2: 5' 8 ' 34' 3-' ; 5'56 ' 74 823'
FF' NL' ; 5>29 5'564 ' 56 ' 43' 4% 23' 7 56' 2% 5 ^'
!)' w+
0-' FW' FM' 148 ' 3 2>' 347' 23@-' 8)' 89' 43'
(-' F' /F' %1' 56 ' 43' A 5'6 ' ; '23?>9' 23@ 9 'B > 6'
LO' / ' > ?65 4 3 '23@ B 21 '62: ' 8-' 216' 456 >'
5 -' FM' NL' ?2: ' 2 ?3)' 29 3?)' 7648 4 : >' /-'
!
0-' ' 89' 82 @ & A626)' 23@ 6 ' 62M ; 2>' B43'
89'-'
N/ ' N ' 56 9' 1> @ ; %4> ' 6 8)' ; 47' 56 '-'
$,)-' W' 0' 5625 ;47 56'@473'43 6 ' 8-' 54' @> 3<)' '
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LO' / ' > ?65 4 3 '23@ B 21 '62: ' 8-' 216' 456 >'
5 -' FM' NL' ?2: ' 2 ?3)' 29 3?)' 7648 4 : >' /-'
!
0-' ' 89' 82 @ & A626)' 23@ 6 ' 62M ; 2>' B43'
89'-'
N/ ' N ' 56 9' 1> @ ; %4> ' 6 8)' ; 47' 56 '-'
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4-' ' A %5' B' 623@ ' 76 16' 623?' @473)' 23@
% ; A ' 8-'
! "
8-' J0' 'A 5' ' 8-' ; %4> ' 56 ' "4>@ 4 >' 82< >'
!
$,)-' F ' / / ' 8 3' 4% >2 A 7 > ' %5' 54? 56 >' 2 ' 43 '
823
4A' F' F' 56 >' 6 2>5 ' ; 3?' %5' 54? 56 >' 3' A4: '
! !
5 -' W' W' %5' 23@ 5' 62M ; '4B 3 @' 8 ' / / J '
' F ' ; 64A@)' ' 523@ 25'56 '@44>)' 29 3?)' 4B 3'
-' F ' ; 64A@)' ' 523@ 25'56 '@44>)' 23@ %5' %' 239'
0-' H-' >-' #4@ @456' %5' 94 >' 9 ' 62M ; '4B 3 @'
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FL' /M' "4>@' ' 3' 56 ' BA21)' 23@ / %5' 5' 345'
-' F' 54' B>4 ; '56)' 23@ %5) 7625'72 ' 3' 56 3 '
6 2>5
F' ! 0) ' / J' FW' / %5' 569' 2 ; 4@ ' 23@ ?4 3?' 4 5)' -'
H <-' FL
* 4 <-' / ' 3 56 >' 62M 6 ' BA21 ' %5' 6 8' 239' 84> '
FF' / ' 23@ 564 ' 29 5)' 647' @456' #4@ %5' ^
(-' JN' / ' 6 ' 5625' 5 216 56' 823)' 62M 345' ; ' %5' ^
/W' 6434 >' 2AA 8 3)' % 2>' #4@)' 6434
-' / ' 0' * ' 6> 5)' 56 ' B> 31 ' 4%' 56 ' <' 4%' 56 '
2>56
J / / ' 56 9' 62@ 2 8-' 4: >' 56 8)' 56 ' 23? A
! #
M * , -' Z-' D-' 23@ 9 ' 62M ; '54' 8 '2' 8-' 4%' B> 5 '
/ -' /L) L' 23@ 7625' 123' 6 ' 62: ' 84> ' ; 5'56 ' 8-' ^
/ b &0) ' / / / / 7 AA > A9' 5 3@ 56 ' 8-' %>4 8' 56)
' /' 0
/ 3 %* 0-' FJ / / ' 2AA' 3' 6 2: 3' 23@ 2>56' '56 3)' 56 3 '
'56 <' ' "4>@)' -' FF' FL' 5 -' D / '
b &-' Z-' 0' %4>' 56 9' 62: ' 345' >: @ 56 ' 3' 56 >' %5'
` -' /N /M' '56 ' 56 ' 8 23' 5625' 0 @ 62<' %5' ^
/ J F' 56 9' 62M % ?65)' %5' 2?2 3 5 %1' 5 -' FN' W
5 %8' / ' L' $ 8 J &' /
= ' %-' /L J' 1431 > 3?'2' %5' 54' ; A@ 23@ 54' BA235' 5
N' /W' 56 ' 84 5 ?6 ' > A 56' 3' 56 ' %5' 4% 8 3)
F0) F
W' FW' 56 ' 84 5 ?6)' 764 ' %5' ' 23' : >A2 5 3?' %1'
5 -' F' > B 35)' %4>' %5' 4% 6 2: 3' ' 25' 623@)' N /W)
/ ' W'
N' L' 6 7 @ 6 8' 2AA 56 '%1) 4%'56 ' 74>A@)' $8 ' N' 0
F ' B> 216 3?'56 ' ?4 B A 4%'56 ' %5' J ' 0
M' / ' 569' %5' 148)' 569' 7 AA ; ' @43)' &5 8 ' / / ' F)

/ *%' / /F)' 347' ' 8' 3' B2>5)' 56 3' 62AA ' 8' : 3'
2 ' ' 2 8' 1
F' 4>' 0 ' F/ ' 6 ' 82@ ' 6 8 ' 54' ; ' Y 3' %4>' 0 ' 764' 8'
34' 3
-8-' H / J ' 23@ 54' 8' 56 ' A4: ' 4% 6> 5 76 16' B2 56'
F & ') / 0 ' %>4 8' 2' 16 A@ 564 ' 62 5' 56 ' 64A9'
1> B5 >
N / W ' 5625' ; 9' 8 ' 56 ' B> 216 3?' 8 ?65' ; ' % 9' '
& -' / / M' 56 9' B>4% '5625' 56 9' 8# #4@)' ; 5' 3' 74><' '
/' *30' F ' ' ' 7 > 5)' ; 12 '9 ' 62: ' 8# 6 8)' /N'
' ' / J /F' 6 ' 62@ 2' 32 8 ' 7 > 55 G' 5625' 34' 823' 8'
! #
0# = ' J ' 23@ 56 ' 5> ' 4% 8# 4% ?44@' 23@ : A)' /W
/ -' F ' ' %4>' 56 ' "4>@' ' 2' #4@ 4% 8#
(' / J ' F' 23@ 3 ?65' 354' 3 ?65' 6 7 56' 8#
W / / ' 23@' ' 56 > ' 8# 3' 56 ' 8 4 5' ?6' ^
/ J ' M ' 16' 8# ' 544' 743@ >% A %4>' 8 '
%* ' -' / J ' F' 5625'56 ' 4 A ; ' 7 564 5' 3' 5' ' 345' ?44@'
. .(-' J / ' 34>' 8# 3' 56 ' ?>2:)' 76 5A= >' 564 ' ?4 5 '
-' F' 56 ' B > 5' 4% 8' 23@ 4% 56 ' % 2>' 4% 56 ' "4+ 1'
! * ' N ' M ' 8 9' B 4BA ' 2> ' @ 5>49 @ %4>' A21< ' 4% 8# ; D
12 '564 ' 62 5' > + 15 @' 8' ' 7 AA' > + 15'56 '
! 4# F ' /N' 56 ' 2>56' 62AA ; ' 6 AA 5% 7 56' 56 ' 8# 4%'
56 ' ?A4>9' 4% 56 ' "4>@' 2 ' 56 ' 725 > '
5 -# F W ' %4>' 56 ' B> 5 -' A B ' 64 A@' < B' 8
$ 8 ' / WW' 54' ? : ' 8' 4% 2A: 25 43' ; 9' > 8 43' 4% 3 '
/ * %# L' / ' 7 '<347' 5625' 7 '2AA 62: ' 8# 8# B %% 56' B'
-3-' H# *J ' 56 ' A4: ' 4% 6> 5' 76 16' B2 56' 8+
N' / ' 5 AA' 7 ' 2AA' 148 ' 3' 56 ' 3 59' 4% 56 ' %2 56)'
23@ 4% 56 ' 8# 4% 56 ' 43' 4% #4@
3&(-' H' L ' 14 35' 2AA' 56 3? ' ; 5 A4 '%4>' 56 ' C1 AD
A 319' 4% 56 ' 8# 4% 6> 5
*(-# / 'B 5' 43' 56 '3 7' 823)' 7 A 16' ' > 3 7 @' 3 8+
/' & -# F' N' 2AA' 8 3' 54' 148 ' 54' 56 ' 8' 4% 56 '5> 56
F' & -' H ' 3 : >' 2 ; A '54 148 ' 54' 56 ' 8' 4% 56 '5> 56

C

" & $)')
0-' H 'NF-' e4@ 6256' 3'56 ' -' 4% 8 3 ' 623@ =
(# J ' / ' 9 5' '56 >' 5> 3?56' 23@ 4>>47)' 443'
1 5
/ N F .' 823' ?4 56' 54' ; W ' 5 AA' 56 ' : 3 3?'
.(# / ' 7625' B>4% 5' 6256' 2' 823' 4% 2AA' 6 ' '^
*30 N ' L ' 23@ 9 '2> ' 35 > @' 354' 56 >' +
' %' H# L ' : >9' 823' 62M > 1 : '2114>@ 3?' 54' 6
473' i
/0' 0L' 94 ' <347' 5625' 94 >' + ' 345' 3' : 2 3
F' %' / ' /0' E45' ; 42 5 3?' 4% 456 >' 8 3- i
/ 8 ' / ' ' > 8 8 ; > 3?' 94 >' i' 4% A4: ' 23@'
B25 31
! 4' M .' / ' 345' 3> ?65 4 '54%4>? 5' 94 >' + 4% A4: '
' ' N ' / 5625' 56 9' 8 29' > 5' %>48' 56 >' "'
= & $)' b
#%*-# F ' J ' C @29 ' 62A5' 564 ' ' A $ +>+ H+
3& N F / ' 4' 7 ' i' 3' 56 ' 74><' 23@ 62M' 6 A@' 56 '
B 2>
(# /FW / ' C1 B5' 56 ' "4>@' ; A@56 9' ' 3' : 2 3 '
/ NN /N .' 5625' 4 >' 4C 3' 829' ; ' 5>43?' 54'
..(' F / / ' ' A44< @' 43' 56 ' A2 ; 4 >' ' 62@ i' 54' @4
0 / F ' 56 ' A B' 4% 2' i' 82 ' ' 7 5'
5 ' / / FL' 148 ' 54' 8 ' 2AA 9 ' 5625' i' 23@ 2> A2@ 5 '
' *%' N ' /F-' 23@ i' 74><' 3?' 7 56' 44>' 473' ; 23@ '
! 4' N / / ' A 5' ' + 56 > %4> ' 5443 5 >' 354' 5625' > 5
. @ 5 #
5 -# J W ' 62>: 5 BA 35 4 ' ; 5 i)' % 7=' $8 ' U-J -#
$8 ' / ' W ' %4>' 56 ' W ' 74>569' 4% 6 ' 6 > '
' %# ' J ' %4>' 7 ' 2> ' i ' 54? 56 >' 7 56' #4@
/ & -' >-# / L ' 56 ' i ' ' 74>569' 4% ' ; ' > 72>@
" !) ' Q
0-# / L) ' FL ' 7 A5' 564 ' @ 5>49' 2AA %4>' i ' 4% % : '^'
M * , -# / M ' / L ' 5625' ?256 > @' A 55A ' 62@ 3 ' i) F(J b(
L / 0
" !)' >
%* ' -# FL.' FW)' 5625' ? : 56' 54' 56 ' B44>' 62AA 345W)' '
5 ' / J ' F ' 56 ' 56 3? ' 62: ' / < B5)' 7625 i ' / 9 5^=
/ ' / 0 % ' 239' 4% 94 ' i ' 7 @ 48)' A 5' 6 8' 2 <' 4% #4@-
"' '
0' F / ' / F ' A 5' 5' 345' ; '?> :4 ' ; 12 '4% 56 '
FF' /F' 6 ' 2 @)' A29' 345' 56 6B' 623@' B43' 56 ' i'
*30 M ' J ' 56 > ' ' 2' i' 6 > ' 6256' % : ' ; 2>A 9' A42: -'
" !
&&## / J F ' 56 ' ; 456' 7 > ' 12 5' 354' 2 i)' 4% % >S-

5 "

0' M' 85'56 > '7 5 B'2' 8' %>48'56 ' 2>56'
& ,♯ N'23@4 >'A%' 62 ' ; '@ B > @'2'2' +
F' 'F' /W'54' 7648'56 ' ♯4%@2><3 ' '> >: @'

5 % .' /F)' NF'2'7 @47'56> 7' 3'574' ♯' $8 'F/ 'F'
3 '/F 0J '5A'564 ' 2 5'B2@56 ': >9'A2 5'8'
$
[.8♯ ' S%2>'8'43'6 '6 2@)' 4'56 9' 5'2'%2>'8
P
! 3♯N'F)'345' ; 3?'8'7 56'%2 56' 3'56 8'6 2>@'5'
$
.'W0'L'56 > ' '2'1 B)'7 3 '> @)' 5' '% AA'4%%$' 5
''/N' / ' 'B4 > @'4 5'7 564 5' ♯ 354'56 '1 B' '
!)'0'
%*'S /N'J'%44A'82<'2' ♯25' 3.' ; 5'28 43?
!)' > '
0'>Z♯ /N'6 ';>4 ?65'3'23' ;> 7'54' ♯3)'/W'+
/ ! 3? '/L FW'25'3443' A+26' #56 8)' 23@' 2@
F b&0) 'F'F 'A A'16 A@> 3'4 54%'56 '1 59' # A 62'
%*''/'FM' '7 A♯ #76 3'94 >'% 2>'148 56
/W)0' 764' 'B44>)'> B>4216 56'6 ' 2< >
0)/W)' 9 '5625'8'25' ; '%256 >)' 2?A 62AA' 25'5
%2^'F /M'76 3' >4@' 27'5625'6 '72 ' # 6 '72
FW' FJ'56 9' ;47 @56 '<3 '23@8 ' / 5 %8' /0 F
5 %8 / 'ON'56 9' 62A♯53'6 8'23@' 14 >?'6 8'
$8 'ON'FJ'A 5'56 9'5625' ; 64A@)' ; ? 3'54' # 6 8'
, '/W F'76 3' ; 2>@4%'56 '> >> 15 43)' 48 ' '
('M'W' ; '345'@ 1 : @)' #4@' '345' #
! $
H %♯ /0 '/W' ' 25'345' 3'56 '2 8 ;A9'4%' 0&
$, ' /L'56 > ' 64 A@' ; ' # 3'56 'A2 5'5 8 '
$
3&('N'0'A 5'94 >' # ; '<3473'54'2AA' 8 3
. P #
* (F'F0'6 '6256'?: 3'94 '56 '%4>8 >'>2 3'0 '

/ & 'F J'748 3'2@4>3'56 8 A: ' ' '2BB2>♯
"
%*,♯ F N'6 '%2 6 43 @' 2%5 >'6 '62@' 82@'2' #
12A%)' L' 0 'Z♯ /F)/M' 3♯ Z♯ +L'
5&.S /'N'56 ' 84 352 3 ' 62AA ; ' # 3@ >'6 8'

$ _' D' F/'5625' '8 29'143 8 '56 ' 3'2' # FS♯
*4 F)0'56 '+49'4%'56 '69B41>5 ' ' ; 5'%4>'2' #
(♯ '0'%4>'6 '23? >' 3@ > 56' ; 5'2' #
♯FM'F '6 @'569 A%'2 ' 5'7 > '%4>'2' #
/' *%♯ /0' 0F' 7 ' 62AA 2AA ; '1623? @' 3'2' #
' *%♯ N /W'4 >'2%%A 15 43)' 76 16' ' ; 5'%4>'2' #
I #
b$ ' 'NJ'23@ 4 '544<'56 '> @ 8 B5 43' #
$ ♯ F'M'9 ' 62A♯ ; 9'8 25'23@ 7 25 >'%4>' # 'O♯
&♯ >♯>♯6 '5625'B 55 56'345'4 5'6 ' # 54' >9'
♯0F' '9 ' 62A♯ ; '> @ 8 @ 7 564 5' '
00' F' 76 > %4>' B 3@9 ' # %4>'5625'76 16' '345'
;> 2@^
5&.♯H+//'56 'B>4B6 5'56 > 4%@: 3 '%4>' +
5 ♯/W FN'56 9'5625'> 1 : @'5> ; 5' # 128
F/ /F'* '4: >56> 7'52 ;A '4%' 1623? >)'23@
25'* '56 8'5625' 4A@'@4:)'5 %8' //'/0
FL /F'56 9'?2: 'A2>? ' # 54'56 ' 4A@ >
, 'N' WW >4 ^K6556 ' 8' 23@A2 @ 5'25'2B4 5A '% 5
/' & 'M/ '5A 'A4: '4%' # '56 '>445'4%'2AA' : A

* 3'/ ' /F' 523@564 ' ♯ 3'56 ': 2AA 9'4%' +2A43'
*4 FO=' 0' ; 64A@'56 ' # 23@ 5' 6 3 5;' 345'
`♯L ' 76 3' '143 @ >'56 ' # 564 '4>@2 3 @ 5'
L/ ')' ;A47' B'56 '5> 8B 5' 3'56 '3 7' #
/ EN' /J' ; '2BB4 3A 56'56 '8 '%4>' 2 43 '
i 0♯D♯ / '%2 >'2 '56 8)'1A 2>'2 '56 ' 3)' 23@'5 >> ;A '
♯ ' /L'23@'56 >'>4 3@ 5 >'A < '56 ' #
I / #
'♯M)' J '56 ' ; : >3 3? 43'56 '2%52>'2A♯ 3 ?65'54'56 ' #
$ 'Z♯ F/ ' 56 '1A4 @ 72 '52< 3' B' 3'56 ' #
$(♯ FL 'MM)' 3'56 ' # 74 A@ #4@' 5'7 > ' : 3
F ♯F 'N'23@6 ' 62A♯ ; '2'56 'A ?65'4%'56 ' #
76 3'56 ' 3'> 156)' : 3'2' # 7 564 5 1A4 @
W' 76 3' 8)' 52> ' 23?54? 56 >)' 43 '4%' #4@
N/' & ♯ 6 ' 9 '2> 'A < ' 9 'A @ '4%'56 '
(♯ >+H♯ /' :4 1' 62A♯5643'6 2>' 3'56 ' ♯ '"4>@)'
3'56 '%@# 7 A♯ '@ > 15' 8 9'B>29 >'54'56
' 0'7 B 3? *%@2' 3 ?65)' 6 5+49'148 56' 3'56 '8'
' /NW' 'B> : 35 @'56 '@27 3 3?4%'56 ' +
HZ'Z♯ %' '52< '56 '7 3? '4%'56 ' '23@'@7 AA

♯/N /F'647'2>5%2AA 3)' '" 1% >)' 43'4%'56 ' #♂
%♯F ' /M'23@'A 5'6 8'6 2>'56 '1>9' 3'56 ' #
@ 8♯FN' L /' B2< '54'56 'B 4BA ' 3'56 ' # 25' : 3'
8 9'7 % '@ 4@)'5'@ @' 3'56 ' # 2 ' '72 '148 823@ @'
* (F)' F' 2 '56 ' # B> 2@' B43'56 '84 352 3 '
'♯F'FL'23@' 7 AA'? : '6 8'56 ' # 52>'
FF)' /M /* '28'56 ' ;> ?65'23@ # 52>'
P $ $
F b&0) 'M FL'569' 43'54 @29)'7 '7 A♯ 25'8 9' 43'5 '
>41'FW /)' ; 42 5'345'569 A%'454 >4'564 '<347 5345'
'FF / 'A 5' 25)'%;>54 '7 '@)'R *%' /0 F
0M' /F'23@'54 8' 62A♯6 '2'56 '@29)'8 16'8 4FN'
5 ♯M) N'52<'56 > %4>'34'564 ?65%4>'56 ' ♯%4>'
56 ' 62A♯52<'564 ?65%4>'56 '56 3? '4%'5 A♯
$8 '/ ' 3 : >56 A ' '8 5' 72A<'54 @29'23@
54 8
/0'N'/N' 76 > 2 ' 9 ' <347'345'7625' 62A♯ ; '43
56 '
$ "
0♯ '0' 7 A♯%516'2' #4%' ; > 2@)' 148%4>5'91'
' /NW' /W' 6 '12 5 56'%4>56'6 ' 1 'A < ' #
%*'♯/W' /' ; 55 >' '2'@>9'8'23@G 53 '56 > 7 56'
4' /F' /M'764'%4>'43 ' # 4A@'6 ' ; >56> ?65'
$ "
'* ♯M' /F'A 5'345' 3'> ?3' 3'94 >' ♯ ; 4@9'
L / / ' 62A♯2A 4'G 1< 3'94 >' ♯ ; 4@ ' ; 9'6 ' B>5
/ *%' /0'0 '56 ' # 8 5'B 5'43' 8 8 4>52A 59)'0N
$ " (
F '0'N'5625' # 8 ?65' ; ' 72A47 @' B'4%'A%
$ $
%*'♯FW' FF'564'564 ' 64 A@ 5' ;>29'2'%44A' 3'2' 8'
$ ' (
* ♯L'/ ' ; 5' %'9 ' # @ @'4%' ; 4@9'9 ' 62A♯A ; '
*(♯ '0' '94 >'8 8 ; > ' 76 16'2> ' 43'56 ' 2>56'

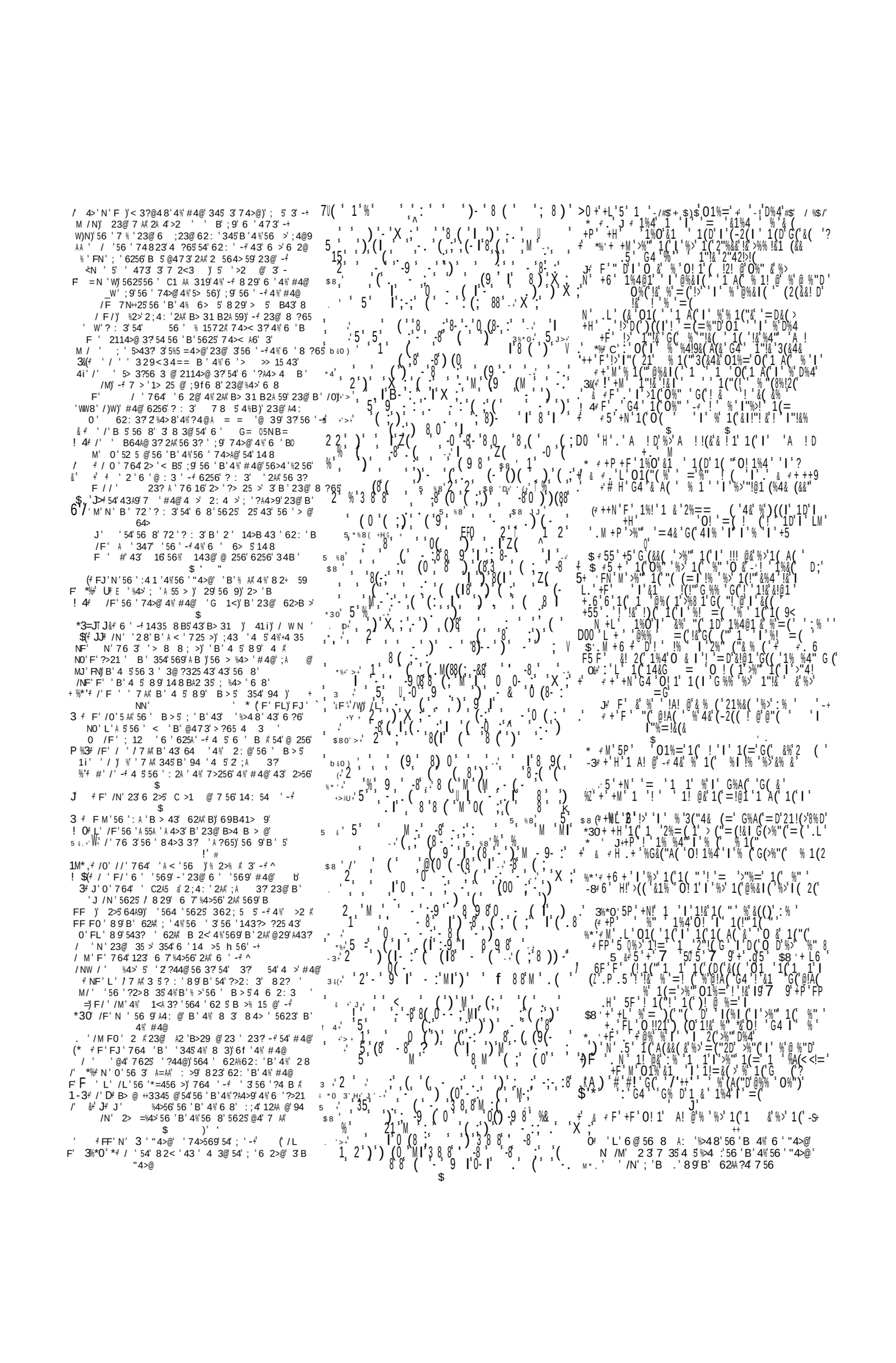
5 'W)' '769' ; 64A@ 5'564 '56 ' '5625' ' 3'569'
;>456 > ' 9)' ; 5'345' ; 28' 3'56 3 '473'^
$8 'M N/

*4 FW)' /L'6 ' ; A@ 56'6 '64 '2 '2' '23@' ;4456'
(' J / /'564 '82< 5'6 ' ; 2 59'143 8 'A < '8'
%A'" M /J'5> 2 >)'76 > ' '23@'> 5'@456'14>> B5'
/ ♯0 F ' > 16 '14>> B5 @)' 94 >'?2>8 35 ' 25 3'
$
0♯)' F ' ; 12 ' 6 '72 '56 ' '4%'2A♯A : 3?'
$,) '> ' < '5 AA'5625' ' ;4>26'2>4 '2'8' 3' >2 A
*4 /'F/'32< @'128 ' '4 5'4%'89' #748 ;
/W' /N' '62: ' 2 @'54'56 ' 74>8)'564 '2>5' 8 9'N # N'
(' FF'J' 82< '8 '64B)'76 3'43'89' # ;> 2 5 '
0'AN' 2 '43 '5625'>34 >3 56'%4>'6 ' #
0/' 0'23@' 3' 3' @ @' 89' 8'1431@: '8 '
/ J'/N'A 5'345'56 ' 3'4%'6 ' # ; ' ;A455 @'4 5'
// ' J'23@'54' ; '2+49% A' # 4%'16 A@> 3'
/ /.' F'2 '2'16 A@'5625' '7 23 @'4%'6 '8
'NJ'F '23@'G 3' 62A♯ ; '569'3 > 3? #H
'F' /F'56 9' 29'54'56 >' # 76 > ' '14 8'23@
7 3 '^ 4 A♯72 'B4 > @'4 5'354'56 >' # ; 4 48
0' '7 '2> '%256 >A)'4 >' # 2> '2 '7 @47
*,%♯' /F' NL' * ' 2 @)' 764' 8 9' 8 '^ 5 %8' '
$8 ' / N)'56 ' # 4%' 89' "4>@' 64 A@' 148 '54' 8 '^
*30H+N'123'6 ' 35 >'2' 143@5 8 ' 354'6 ' ♯748 ;^
/J' FW'56 3' 2 56'6 '54'56 '@ 1 BA)' ; 64A@'569' 8'
('N'FM' * > 2A 8)' 76 16' '56 ' # 4%' '2AA
/ & ♯ /'J'56 'A2 7' ' 82@'%4>'8 >@ > > '4%'

* 'W 0'56 ' '4%' 3'@ @' 74><' 3'4 >'8 8 ; >
,
0' / F'56 ' B > 5'4%'#4@' ♯43'%21 '4%'56 '725 >
F/' #4@'1> 25 @' : >9'A : 3?'1> 25 > '5625' # 2 6
'♯ //' / '4%'2AA'5625' # 3'56 '725 > '
$,) ' / 'FO)'56 ' B > 5'4%'56 ' "4>@' ; ?23'547 '6 8
F 'FF L' 56 '%4 3@25 43 '4%'6 2: 3'8 '23@ 644<
3%*0♯ /M' '% 2>' ; %4>' 6 8)' 56 ' 74>A@' 62A♯ ;
52 ; A)' 5625' 5' ; '345' ' (♯ ZH ♯ * JM /'
' / 'M' ' 62AA' 345' ; ' /M' L' _ M' ♯)
/0 0' 6 '5625'@4 56'56 '56 3?' 62A♯3 ; >' ; '
NM' 0' 6' 62A♯ 345' ; ' # #4@' 62A♯ 6 AB' 6 >'
/F/'H' 6 ' 62A♯ 345' %% >'569'%445'54' ; ' #
%*''F ' /'345'43' 3'76 3' 5' # 5 A♯ 2> ?65'
@ 8♯ <♯ Z♯ 5625' 8'76 56 > 4 : >'56 '> : > '148 '
*30'>♯ H' ; A 3@' 72 5 3?'%4>'56 ' ♯ 4%'56 '725 >'
. 'Z♯ FO' 43' 8 9' > ?65'623@)' 5625' ' 64 A@' 345' ; ' #
/W FL' %4>' 3' 6 8' 7 'A :)' # 23@'62: '4 >' ;
*'" /)' F ' ; ' 345' # %>4 8'56 '64B ' 4%'56 ' ?4 B A'

! 3♯ /F'F ' 7 '> 1 : 3?'2' < 3?@48' 76 16' 123345'
; ')
F ' /'F/'56 9' B2< '2' ' ; 9'56 ' 4A9' # 64 5'
, $
. 'FN' 0'62: '%4 3@'56 '% AA47'2' # 4%' @ 5 43'
)
*4'F M'564 ?6'6 ' C1 AA 319' # B'54'56 '6 2: 3 '
(♯ / W FM'56 9' # B'54'6 2: 3)'56 9' ?4'@47 3'
)
0' /'0N' *214 ;'4%% > @ 21>%1'43'56 ' 8)
M*, ' /L 0'76 > '6 ' 3128 B @ 25'56 '8'4%' # 4@'
FN' /W' 72 'A < ')@ : 4 > 3?'% > '43'56 '54B'4%' #
0/' /L'56 ' "4>@'?2: ' 4 '43) # 32'574'52 ; A
/ b&0) ' /J' L)' A +26' 7 35'54' 4> ;)'56 ' # 4%' # 4@'
♯FW / ' 62A♯74> 6 B' 3'56 '64A9' '4%* > 2A 8' '
.3♯ /N' N'6 '% 5' 62AA' 523@'43'56 ' # 4%' A :)
56 ' '4%' A : ' 62A♯1A 2: ' 3'56 '8 @ 5'56 > 4%'
5 ♯FN' ' 23@'2'6 ' 25' B43' # 4%' A :)' 5 %8' +
/
FM.' '23@'76 3' 62@' 3?'23'695%53'56 9' 7 35'4 5'
354' '4%' A :)' 5 %8 'FM' $8 'FF J'
$8 '/J' W'6 '72 '25'56 '@ 1 35'4%'8'4%' A :
F/ W' 25' 3 ?65'6 '7 35'4 5)' 23@' 2 ; 4@ ' 3' # 4%'
A :
*!0 L' /)' * '7 35' 354'56 '8'4%' A :
. ' / /F'56 3'56 9' > 5 >3 @'%>48'56 7)'4%' A : >
! A♯ /F' /L'345'148 '54'56 ' # 8 ?65' ; '54 16 @
F ♯ / /L'76 3'7 '7 > '7 56'6 8' 3'56 '64A9' #

0♯ W F '8'7 > '14: > @
/J' /W' 12B '54'56 ' # &1#
FF' F'4%% >'6 8'43'43 '4%'56 ' # '7 A♯5 AA'56 '4%
/ ♯ /W' '56 ' 6 A 5 3 ' 544@'43'2' # 43'56 '43
@)' 23@ >2 A 544@'43'2' 8'43'56 '456 >' @
F ♯ /'F/'9 ' '4%'# A ; 42)' A 5'56 > ' ; '34'@ 7
/ b&0) ' /J' //'2'?> 25'23@ 5>43?'7 3@ > 35'56 ' #
F b&0) 'F' /M)' 56 ' B > 5'6256'12 5'6 8'43' 48 ' '
&0' / / /'647' 29'9)'%A '2'2' ; >@'54'94 >' # E
-0♯ M' 569'> ?65 4 3 ' 'A < '56 '?> 25'
J 'F' ; %4> '56 '7)'7 > ' ; >4 ?65'%4>56'
/N'M' 56 '725 > ' 544@'2 ; 4 : '56 '8
/N'N' ' < BB @'A < '>28)'A 55A '6 AA '2 'A2 8 ;)'M
/NN' 0'54 16'56 ' # 23@'56 9' 62A♯ 84<'
%*'♯L'FO' ; %4> '56 ' # 7 > ' 55A @)' ; %4> ' 56 '
6 AA '72 ' ' ; >4 ?65'%4>56
♯F/N'56 '@29'4%'56 ' "4>@' 62A♯ ; '43'6 ?6' #
/L' '76 3'6 'A %5 56' B' 23' 3 ?3'43'56 ' #
N/NN' : >9'7 '62A♯ ; '82@'A47)' $8 ' 0)
NN)F ' ;> 2<%4>56' 354' 3? 3?)'9 ' # F1#&`
0F'W)'647' ; 2 5% A♯43'56 ' #2> '% 5)' 3♯ /)' /0)'
!X '/ 'L'23@'56 9' 62A♯ 29'54'56 '8'14: >'
* (F'F'2'56 '84>3 3?'B> 2@' B43'56 '8
5&.'M'F'6 2>'9)' '9 '8'56 ' "4>@ '1435>4: > 9'
4♯ H♯ M'56 ' : >A2 5 3?'8'7 > ' 1255 > @)'5A '6 AA '
P%.8♯ L' ' ; '12AA @'56 ' # 4%'56 ' "4>@)'56 'A 4A9' #
5 ♯N'L'56 '@ : A'52< 56'6 8' B' 354'23' C1 @ 3?'
6 ?6' '23@ 6 7 56'< 3?@48 '4%'74>A@)' $8 ' +>+
/W' F ' %' 9 '62: '%2 56'2 '2' ?>2 3'4%' 8 52>@)' 62A♯
29'54'56 ' ♯> 84: '6 31)'F/F/' / /'F)
FN /M'A 5'56 8'76 16' ; ' 3'* @ 2'%A ' 354'56 ' #
/ *%' / ' F' 2AA'%2 56)' 4'5625' '14 A@> 84: '
$
0' W 0 /7 A♯?4'@47 3'54'56 '?>2: '54' 8 9' 43'
F ' /N'F' /B>29'56)'B 5'43' # 2BB2> A
'b&0) ' / ' FJ'4A@' B>4B6 5'12 8 ' 354' 56 '1 59'54 8 '
3♯ L'J'56 '@29' 264A9'54'56 ' "4>@)' # 345'
(♯ L'M' '28'5>4 ;A @)' '?4' # 2AA'@29'A43?
♯M/' '54' 2BB4 35'56 8' ' 3'V 43)' ; 2 59'%;5'
* ♯N' '56 > %4>' 62A♯56 'A23@ # 23@A23? 6'
P .3♯ /F' / '23@ 62A♯ #%4>'6 8 '2 '43' #
5 &♯ >♯N' ;A @'2> '56 9'5625'8 '%4>'5A 9' 62AA
// /W' 7 '62: ' # 354' 94)' 23@'9 '62: ' 345'A2
8 35 @)' $8 'W' F
$8 'D♯FO'74 '54'94 '5625'A2 ?6)'%4>'9 ' 62A♯
$ $
..(♯ /F' 0'23@'56 ' # ?4'2 ; 4 5'56 ' 5> 5'
$ ' " " (
5 &' ' /N' 7625'B>4%5'5625'7 '62: ' 72A< @' '^
$ #) Q
0♯ FW'N/' 56 '@29 '4%' '%4>' 8 9'%256 >'2> '25'623@
F ♯ 5J'F'56 ' : 154>9'5625'@29' 72 '5 >3 @' 354'0$'B
3?'(' ' ')'564 '62 5'5 >3 @' 8 9' 8 ' 354'@231 3?)'
1..('W'F' 5'! ' ; 55 >'54'?4'54'56 '6= '4%' #



$

(♯ J' J '56 '+ @? 8 35 '4%56 ' "4>@' 2>1'5> ' 23@ ' 2A54? 56 >)' / / J
W' F0 ' 9 5'62: ' ' 345' 3' '%4> 2< 3)' 34>' ; ' @' /N/ ' 0 ' A 5'56 '>' 8 5 ' 3)' 5' 62A♯ ; '2' < 3@3 ' /N0 ' /W' 56 ' "4>@' ' >' 3' 2A♯ 6 ' 729)' 23@ 64A9'
5 / ' ' F' %>472>@' '2;48 325 43)' ; '5'6 ' 1> 5' ' 7 56' >
/N' F' ; 5'56 ' >' 6256' 64B ' 3' 6 '@ 256' (♯ W' /M' ; ' 345' >' 4: >8 16)' 3 56 >' 4: > 7 L /N ' 62BB 3 56' 2114>@ 3?' 54' 56 ' 74><' 4%56 ' > J / ' 56 '%' 23@' 56 ' 7 '2> ' 3' 56 ' 623@' 4%♯ #4@'
+ : ' / / ' 62A♯ 8 9'>' >:235+ 5 %9' 8239 0W / ' %♯ B > 6 56)' 23@' 34' 823' A29 56' 5' 54' 6 2>5)' 343 '143 @ > 3?'5625'56 ' ' '52< 3'%>4 8'56 ' : A♯ DX'8' 'F ' 2?2 3)' 76 3' 2' ' 823' @456' 5 >3)' /L' FN)' FM ' ' /L
' /F' 56 '> ?65 43 3 '4%56 '>' 62A♯ 345'@ A : >' 6 8' 3'56 '@29)' 34>' 62A♯ 56 '>' ; '2 ; A ' 54' A : ' 7 & ,♯ / '56 ' 2A '4%56 '+ ' 2> ' 3' 56 ' 623@ 4%♯ #4@ ' J / ' '28' 345' 148 '54' 12A♯ 56 ' ' ' 5 33 > ' 54' > B 3526)' 7 9 F /W' 8 9',0' F / ' N/)' 6 '5625' > : 56' 2' > ' 823' 3'56 '328 '4%2 >' 823)' 62A♯ > 1 : '2' ' 823· '> 72>@' FO NM ' ; 5'56 '>' 62A♯ ?4' 3%4' A %' 5 >32♯ $8 ' /' M' 23@ 56 9' 7 > ' ; 456' > ' ; %4> ' #4@ /L J' 76 16'5> 5 @'56 9' 7 > '>' 23@' B @'456 > F ' NW' 29 3?)' 1 >52 3A9' 56 ' 72 ' 2' > ' 823 ' 'W' FN'+ @? ' 345' ; 9' 2BB 2>231)' ; 5'+ @? ' E) ' F 0 ' 23@' > : A25 43' 4%' 56 '>'+ @? 8 35' 4%♯ #4@ ' / ' 5' '7> 55 3)' 56 > ' '343 ' ' 34♯ 345' 43 0 ' W' 12>1 A9' %4>' 2' ' 823' 7 A♯ 43 '@ /J' 4' ; 9'56 '4 ; @ 31 '4%' 43 ' 8 239♯ ; ' 82@ '%♯ /' , & ♯ / Z♯ 3 '56 ' A27' ' 345' 82@ '%4>' 2' >)' 823' .. ' ; / / ' N ' 6 ' 4 ; 52 3 @' 7 53 '5625' 6 ' 72 '> .) ' : /M ' 56 ' % >: 35' B>29 >' 4%' 2' ' 823' 2 : 2 A 5 ; ' 8 16
/' ♯ /F ' 56 ' 9 ' %56 ' "4>@' 2> ' 4 : >' 56 ' >) N /L' %56 ' ' 12>1 A9' ; ' 2 : @)' 76 > ' 62A♯ 33 >. F' 5' ' F' L' "45' : C @' ; ' ' 4 A %>48 ' @29' 54' @29 /' . ' F' / ' 7 '62 : '23' 2@ : 4125)' * ' 6> 5'56 '> ' W' 6 '5625' @4 56' > ?65 4 3 ' '>' 2 ' ; E'/ ' FF' / / ' 23@' 6 '5625' '>' A 5' 6 8' ; ' ' 5 A♯ $ / ' #' " (5+ 'MW' N' 564 ' 62A5+ @? '56 ' B 4BA '>' JM' ' ' + ' /0 ' 6 '5625' 72A< 56' ' 62A♯ @7 A♯ 43' 6 ?6' A ' F' /F ' 5625' 7 ' 64 A@' A : ' 4 ; >A9)' >' 23@' ?4@A9' /' ♯F) F ' 148 8 55 @' 54' 6 8' 5625'+ @? 56' %♯ $ # C' ' M' FO' 23@' 5' 62A♯ ; '4 >' ' %' 7 '4 ; >: '54' @4' . *' FJ ' N /' B 543' '23@' 5' 1A456 @' 8 M ' 23@' ' 7 A♯ 2 1> ; ' >' 54' 8 9' 82< >' (♯ N ' 0 ' 4%% >' 56 ' 21> %1 ' 4%' >' 23@' 5> 5' 6' 56 ' "4>@ J ' L' 23@' 6 ' 62A♯ + @? '56 ' 74>A@' 3' > / / ' W' %4>' 56 ' > ?65 4 ' "4>@' A4 : 56' %♯ ' 0 /0 F ' 6 '5625' 74>< 56' >' 62A♯ 3 : >' ; ' 84 : @ /W' 0' 2 '%4>' 8)' ' 7 A♯ ; 64A@' 569' %21 ' 3' > N ' J ' 62 : 'B> 216 @' >' 3' 56 '?> 25' 143?> ?25 43 NO W' 564 'A4 : 5' '23@' 625 5'A : 1< @3 Y)' $'* ' / J NL / '569' > ?65' 623@)' ' #4@)' '% A♯ 4%♯ W/ / J '569' >' ' #4@)' ': >9' 6 ?6)' 764' 'A < ' 354 56 '^ LO ' / '>' 23@ B 21 ' 62 : '< @' 216' 456 > / M ' ;A @' ' 6 '5625' @4 56' >' @5' 2A♯ 5 8 / / L / J ' 4B 3' 54' 8 '56 ' ?25 '4%%♯ ' 7 A♯ ?4' 3' / F' J ' A 5'569' B> 5 ' ; '1A456 @ 7 5 ;' '569' 2 35 5 / ' / / ' /L' 54' 6 8' 5625' 47 56' ' 62A♯ ; ' 2' >' > 72>@ /N N ' ' C2A5 56' 2' 325 43)' 3' '2' > B54216' 54' 239' + ' / / ' N ' ; 5' 7 56' >' 62A♯ 6 '+ @? ' 56 ' B44> FM' J '56 ' 362 ; 5235 ' 4%' 56 ' 74>A@' 7 A♯ A 2>3' F /W' 23@' 56 ' 74><' 4%♯ ' 62A♯ ; ' B 21)' 23@' 56 %% 15' 4%' ' G 53 ' 23@' 2 >231 ' %4>' : >' ON ' /W' 56 >' >' ' 4%' 8)' 2 56' 5A ' "4>@' . ' F ' M' 56 ' 6 ' 328)' 56 ' "4>@' 4 >' ' /M /0 ' 25' 5625' 5 8 ' 7 A♯ ' 12 '56 ' ; >2316' 4%♯ ' 54 ?>47' B' 54' 2: @)' 23@' 6 ' 62A♯ C 1 5 '>' D/'9' /L' F '56 ; ' 4%' 56 '> ?65 4 ' 62A♯ ; ' 43' 6 8 /F ' 56 ' '56 '> ?65 4 ' 62A♯ 345' @ A : >' 6 8A C ' /F' '56 9' 5625' 5 >3' 8 239' 54' ' 62A♯ 6 3 ' 2 ' 52> $ +' /F ' 47' 54' 94 > A: ' 3' >)' > 2B' 3' 8 >19' 5& +' D♯ 0 ' 5625' 9 ' 8 29' <347' 56 '>' 4%' 56 ' "4>@' H -3+ F) ' 2A♯ 9 ' 8 <'1%' 2>56' <'>)' <' 8 <3

5 ; N' F' 54' 94 ' 5625' % 2>' 62A♯ 56 ' ? 3' 4%' >' 2> ' 7 B' 56 ' 5' ; 148 56' '54' % A% A♯ 2A♯ > : E' -(*++*6' %2*) / * B / '</' / 410*2' %16) / ''+) %♯) *22!' L '*R<*K)' "42' 2 ' *R<**6') / *' 2' "♯) / *' +<2' - *+' E ??' -4)'+**.' *'♯'2+)') / *' . '106" &' "♯ "6' %16' -'+' 2' .) ' AE' J ' / *' B' ((2*K2"5*') / *' B "2(6' "♯ +'1' %16' "♯ 2! A ' ?: ' / *') / %)' B "2. *) / ' 2 ' '+' %<<*K) *6' B') / ' / '& AI ' ?A' / *' B' (($460*') / *' B "2(6' '1' 2' ! $) ' A' AI '♯"2') / *2*' 1' '+') / *' ' "♯ "6' 2*5*%(*6 ? : ' '♯" 42' 412' 0 /) *" 4+1*+' <" & & *' 16') / *' 2 ' "♯ "6' C' E') "' B / " & ' "6' ' & K4) *' 6') "' / ' & '♯" 22 ' ♯ 9' 9? 99' / '+' ♯%') / ' B%+' ' & K4) *' 6') "' / ' & '♯" 22 ' ♯ 9' 9? : ' '+"' - ') / *' 2 ' "♯ "1*') / *' ♯2*' 0'♯)' <%& *' "1' %((E' A?' '*(6' "42' & * & - *2+' 1+) 24 & *1)+' "♯ 2') "' "6 L' ? ') / %)') / *' *1) '(*+!' B / '</' ♯"((" B *' 6' 1") ' %♯) *♯2 2 /%5*' %))%' 1*' 6') "' 2!' *5*1') / *' 2 ' B / '</' '+' ♯' ♯%') / A ' ? ') / * ' - *' 10' 01" 2%1) ' 0"' 10' %- "4)') "' *+) %-(' +/) / *' 2" B1' ' / %5*' 1") ' +4- & ')) *6') "') / *' 2 ' "♯ "6 AC A! ' ,. '106" &' "♯ "6' 1") ' & *%) ' %16' 62' 1 . ! - 4) ' 2 A' F ! ? ' '1' /2' +)!' B / "' "♯ "6' '+ & %6*' 41) "' 4+2 9' F (: ?C ' %B% . *') "' 2 ' %16' +'1' 1") !' #" 2' + " & *' / %5*' 1") ' : ' 9A') / %)' B *' & '0 /)' - *' & %6*') / *' 2!' " ♯ "6 P '1' / ' & K '9 ' 9A ' '♯ 2 ' <" & *' - ' (%B!' /2' +)' '+' 6 *%6' '1' 5%' 1' K 'C' 9C' B / '</' %♯) *2' "6' +' <2*%) *6' '1' 2 : ' L ' #24') ' "♯) / *' K' 2') ' +' 1' %((' %16') 24) / ' 5 ' ? ' E') "4</' 10' 2 ' B / '</' '+' 1') / *' (%B!' -(% & *(*++ L' & % ' - *' #" 416!' 1") / %5' 10' & ' 1*' " B1' !' A) ' E AA ' %16' #" (("B' %#) *2' 2 ' 9' A ' 9 ' 99! 9' A) ' ? ' '#' ' +<2' K) 42*' '+' #" 2' 1+) 24<) ' "1' ' 1' 2! A' $'* ' A' J ' %' +<*K) 2*' "♯ ' '+' +<*K) 2*' "♯) / ' . '106" & I ' 9' #' 2+)' - *' 10' - ' '1) *2K2*) %) ' "1' . ' 10' "♯ 2 AA ' I ' %16' -*<% & *' / *' 2' "♯) / *' ' B / '<' / '+ - '#%') / A9 AA ' %#) *2B%26' ') ' '*(6*) /' K*%<*%-(*' #24') ' "♯ ' 2') ' A' 9 ' B2%) / ' "♯ & %1' B "2. *) / ' 1") ' ' "♯ "6 A' 5' , ?' AJ ') / *' #24') ' "♯ 2 ' '+' +"B1' '1' K*%<*' "♯) / * & '9' 9C' B*' -*' 10' 6*%6') "' +'1+' + / "4(6' ('5*' 41) "' 2 ' ' ' W' 6 '5625' @4 56' > ?65 4 3 ' '>' 2 ' ; 9' 5' A' A' "-) %' 1*6' (' . *' #%') / ') / 2" 40 / ') (' *' 2 ' "♯ "6 E'/ ' FF' / / ' 23@' 6 '5625' '>' A 5' 6 8' ; ' ' 5 A♯ 9' 9 ' 9A' - **1' - *')) *' 2 1") ') "' / %5*' . 1 "B 1') / *' B% ' "♯ 2' 5+ 'MW' N' 564 ' 62A5+ @? '56 ' B 4BA '>' JM' ' ' ? A ? ' B*' (" ' . ' ♯"2' %' 1*B' *%2) / !' B / *2*' 1' 6B*((*) / ' 2 + ' /0 ' 6 '5625' 72A< 56' ' 62A♯ @7 A♯ 43' 6 ?6' A' . ' 9' 9L' *5*2 ' "1*' B / '</' 6"*) / ' 2!' '+' -"21" "♯ "6 A ' F' /F ' 5625' 7 ' 64 A@' A : ' 4 ; >A9)' >' 23@' ?4@A9' ?' I ' - *') / %)' 6"*) / ' ' '+' 2' 0 /) *" 4+!' %♯ / ' ♯' '+' 2' 0 /) *" 4+ /' ♯F) F ' 148 8 55 @' 54' 6 8' 5625'+ @? 56' %♯ G' ' 9 I ' ?E' +%4' +%' 6 ' '+' 1") ' / *' ' 1% & *' 6' 3%<" - H C' ' M' FO' 23@' 5' 62A♯ ; '4 >' ' %' 7 '4 ; >: '54' @4' 8 9' 9 ' 9A' & %+) *2!' B*' . 1 "B') / %)') / "4') %*<' +*) ' 2 . *' FJ ' N /' B 543' '23@' 5' 1A456 @' 8 9' & ♯' 9 A : ' %♯' 6' 5' 6' 10') / *' B "26' "♯') 24) / M ' 23@' ' 7 A♯ 2 1> ; ' >' 54' 8 9' 82< >' >0 +' 9C : ' %16' %' 2 ' "♯) / *' +*<) ' "♯) / *' %D%2*1*+' (♯ N ' 0 ' 4%% >' 56 ' 21> %1 ' 4%' >' 23@' 5> 5' 6' 56 ' !' "4>@ A ' A' E' <' / ' (62*1!' 1") ' %<<4+*6' "♯ 2 ' "2' 4124(J ' L' 23@' 6 ' 62A♯ + @? ' 56 ' 74>A@' 3' > A' 5' ' C' C') / %)' "4' 241' 1") ') "') / *' +%& *' *R<*++' "♯ 2 / / ' W' %4>' 56 ' > ?65 4 ' "4>@' A4 : 56' %♯ ' 0 !' Z /0 F ' 6 '5625' 74>< 56' >' 62A♯ 3 : >' ; ' 84 : @ E) ' A?' A?' B%(. ' 1") ' '1' 2 ' %16' 6241 . *11*++ /W' 0' 2 '%4>' 8)' ' 7 A♯ ; 64A@' 569' %21 ' 3' > 9' 5' ' 9 A?' %+') / * ') / %)' <"41) ') ' K(*%+42*') "' 2 N ' J ' 62 : 'B> 216 @' >' 3' 56 '?> 25' 143?> ?25 43 NO W' 564 'A4 : 5' '23@' 625 5'A : 1< @3 Y)' $'* ' / J 8 2"4 ' 9 J I ' / *') / %)' '+' %' <" & K%1' "1' "♯ 2 ' & *1' +/ %' 1*) / ! NL / '569' > ?65' 623@)' ' #4@)' '% A♯ 4%♯ 9 ' 9A' & %+) *2!' B*' . 1 "B') / %)') / "4') %*<' +*) ' 2 W/ / J '569' >' ' #4@)' ': >9' 6 ?6)' 764' 'A < ' 354 8 9' A: ' A?') / *2*' B%+) *6' -'+' +4 -+) %1<*' B') / ' 2 ' ('5' 10' 56 '^ P LO ' / '>' 23@' B 21 ' 62 : '< @' 216' 456 > O' LE AC') / * ' %2*' 6*<*%+*6!') / * ' +/ %((' 1") ' 2 / M ' ;A @' ' 6 '5625' @4 56' >' @5' 2A♯ 5 8 C? A I !') / * ' +/ %((' ('*' 6" B1') "0*) / *2!') / * ' +/ %((' 1") ' 2 / / L / J ' 4B 3' 54' 8 '56 ' ?25 '4%%♯ ' 7 A♯ ?4' 3' E ' ?!' %16' . '10+') "') / *' -2' 0 /) 1 *+' "♯ "♯) / ' 2 / F' J ' A 5'569' B> 5 ' ; '1A456 @ 7 5 ;' '569' 2 35 7 ' : C : ' / *' & %. *) -' +41') "' ' "1' *5' (%16' 0" "6 5 / ' / / ' /L' 54' 6 8' 5625' 47 56' ' 62A♯ ; ' 2' >' 9 ' AL' ,<24<' ♯ ' / ' & !' %16') / '26' 6%' / *' +/ %((2' %0%' 1!' > 72>@ 7 9 L' ?A' ' ' ?C' 8 9' ' AJ' ??' ' ♯ 9C' I /N N ' ' C2A5 56' 2' 325 43)' 3' '2' > B54216' 54' 239' 9E' CE' ' (*)' 4+' - *' 0"' 10!' - *' / "(6!' / *' '+' %)' / %16' + ' / / ' W' %4>' 56 ' > ?65 4 ' "4>@' A4 : 56' %♯ ' 0 9J!' E' / *' '+' 1") ' / *2*!' / *' '+' 2!' %+' - *' +%" 6!' 7 9 AE' E' FM' J '56 ' 362 ; 5235 ' 4%' 56 ' 74>A@' 7 A♯ A 2>3' 9 L' A ' B / %)') / *' 2 ' #2" & ') / *' 6 *%6' + / "4(6' & *%1' 7 9 F ' W/ ' 23@' 56 ' 74><' 4%♯ ' 62A♯ ; ' B 21)' 23@' 56 9' ?C') / *' <' ('6' '+' +*)' ♯" 2') / *' ♯%((%16' 2' " ♯ & %1 ' ; 7 9 %% 15' 4%' ' G 53 ' 23@' 2 >231 ' %4>' : >' 9C' ?C') / *' "26' '+' 2 ' '16 **6!' %16' / %) / *%KK*%2*6 ON ' /W' 56 >' >' ' 4%' 8)' 2 56' 5A ' "4>@' CE' ')' - *' / "5*6' /2' +)') "' +4 ♯♯*2' %16') "2 ' ♯2" & ' . ' F ' M' 56 ' 6 ' 328)' 56 ' "4>@' 4 >' ' /M K 'J ?C' /2' +)') / %)' 6' *6!' *%' 2%) / *2') / %)' '+' 2 ' %0%' 1!' /0 ' 25' 5625' 5 8 ' 7 A♯ ' 12 '56 ' ; >2316' 4%♯ ' 54' F ' 9' A9' ' 1' -%K) '+ & ' %(+" " 4' %2*' 2 ' B') / ' / ' & ?>47' B' 54' 2: @)' 23@' 6 ' 62A♯ C 1 5 '>' ?' A ' ♯" *' - *' 2!' B') / ' /2' +)!' + *** . ') / "+*') / '10+' %- "5♯ D/'9' /L' F '56 ; ' 4%' 56 '> ?65 4 ' 62A♯ ; ' 43' 6 8 A ' ++' C' E") / *' 6 *%6' '2S /2' +)' + / %)((2' ♯' 2+) /F ' 56 ' '56 '> ?65 4 ' 62A♯ 345' @ A : >' 6 8A C ' /F' '56 9' 5625' 5 >3' 8 239' 54' ' 62A♯ 6 3 ' 2 ' ' 5! ' 52> $ +' /F ' 47' 54' 94 > A: ' 3' >)' > 2B' 3' 8 >19' 5& +' D♯ 0 ' 5625' 9 ' 8 29' <347' 56 '>' 4%' 56 ' "4>@' H -3+ F) ' 2A♯ 9 ' 8 <'1%' 2>56' <'>)' <' 8 <3

(♯ / W)' /)' ; 9' 56 ' W' 4%' &2 ; 9♯43' 56 > ' 25) 7 ' 7 B5 5&.♯ M' W' ; ' BA 2 @ 7 56' 5 3' 564 23@' 4%>' 4%4♯ 9' E'/ 'W' L' 4 5'4%' 6 ' ; AA9' 62A♯ %547>' 4%♯ A : 3?' 725 >' ' FF / ' 6 ' 6 7 @ 8 ' 2' B > ' ' 4%' 725 >' 4%♯ A %' =' $ $ / F ' /M' F' A 5'56 ' 2' >' 5+ ' JM / /' 5+ ' FF' / ' 56 9' ?2B @' B43' 8 ' 2' 2' >' ' / L' L / 62 : ' ' ; 9' > 2 43' 4%56 ' 5 NM)' 0' 7 A♯ 345' 7 '% 2>)' 564 ?6' 72*=A 56 > 4%>' >) + ' L' 56 ' A 43' 6256' >' 764' 7 A A % 2 >^ $.8 ' F / ' FO' @ 5> '56 ' 2' 23@' 555 ' 72 : '> / 5' >♯ L' 56 ' @ : A)' 2 ' 2' >' A 4 =2A< 56' 2; 4 5 $ & = 'S /J' / '564 ' 62A5 345'+ = 9 ' 3 ?6 ; 4 >' 5+ ' / / J)' M / ' ; 23@' 4 = 6 ' 7 1< @' 62 : '>' 8 ' 5 / ' /W' /F' A 5' 2' ; 2 >= 4%' 6 >' 76 AB ' 3 52 8 2 FF' FF)' > ' 345' 56 = 44>)' ; 12 '6 ' B44> FL ' FN ' 7 64 = = ' %256 >' 4>' 6 ' 8456 > 7 ' L' 7 A2 9 =' ^ 9 5' 9 ' 62 : '>' 8 #F ' 456 >' 16 >16)' 52< 3?' 72? $ & & $.' ' W / /)' '56 ' 64 ' ; 148 ' 2' @ 3' 4%' 3' ^ *30' / / '56 ' 28 ' ' 2' 56 %' 23@' 2' %♯ /L' N '56 9' 1> @)' 345' 56 ' 823)' 347' &2>2 ; ; 2 72 >' $ & & $ (5 ' F' M' 564 ?65' 5' 345'+ > ' 54' ; ' G 2♯ 7 56' #4@ $ & + ' M / / ' 6256' 14 : > @' 8 ' 7 56' > ' 4%' > ?65 4 3 ' ' ♯ W J ' 544@' ; %4> '56 ' "2 8 ;)' 1A456 @' 7 56' 76 5 ' S) ' F 'A ' 8 5' 7 '% 516' 94 ' 725 >' 4 5' 4%' 56 '] F)' J ' %4>' %>4 8' 56 '54B' 4%' 56 ' ' / ' 6 8 /) ' F F ' 3 56 >' 56 > ' 239' 'A < ' 4 >' G F') ' FF)' NW' 56 ' "4>@' A : 5 ;)' ; A @' ; ' 8 9' >) 23@' C2A5 @' ; ' 56 ' #4@' 4%' 56 '%♯ 4%♯ 8 9' 2"' : 25 43 5+ ' M / ' F' A 2@' 8 '54' 56 ' ;5625' ' 6 ?6 >' 5623' ' MF' F' #4@' 43A9' ' 3 9' 5 / ' 'FM' 9 5' 82< ' 56 9' 56 >' 64 ' 3' 56 '>' + ' L /N ' %4>' 2' ' 4%' 4%% 31 ' 54' ; 456' 64, ' 4%' >2 ♯ 7 ' W FO)' %4>' 5' 72 '%4 3@ @' B43' 2' ' 8 9' 'M NL)' , /M' /L)' 23@' B43' 56 ' >' / 7 A♯ ; A@' 8 9' 16 >16' E) ' ')' 2 ' 5' ' 7> 55 3)' ; 64A@)' ' A29' 3' 43' 2' 5 8 ; A 3? 543)' 23@' ' 4%' 4%% 31)' / 5' 'F L' / F ' / ' N' %4>' 56 9' @>23<' 4%' 5625' B > 5 2♯ >' 5625' %4AA47 @' 56 8)' 23@' 5625' > ' 72 ' 6> 5 $ DM ' N N ' 6 '12 ?65' 5)' 23@' 5' ; 128 '2>' ' 6 '623@ S) ' / W L' 56 '>' 4%' 2>43' %4>5 ; '64 '4%" : ' ; @@ @ 5+ ' F' J ' 564 ' 62A5 ;> 2<' 56 8' 7 56' 2' > ' 4%' >43' F N ' 569' > ' 235' 569' 52%%)' 56 9' 148 %4>5' 8 ' 5 / , ' E' / '2' > ' '%4>' 56 ' ; 21<' 4%' 6 8' : 4 @' 4%' 3D @ > 523@ 3?)' FM' / 'FN' 6 '5625' B2> 56' 6 '>' 625' 56' 6 ' 43 + ' / / / ' 62A♯ 148 '%4>56' 2' > '4 5' 4%' 56 ' 5 3 ' 4%* ' 7 0 ' 6 2>' 9 '56 ' ' 23@' 764' 6256' 2BB4 35 @ 5' / F ' N ' F/ ' 62A♯ ' 148 ' 54' 94 ' : 56' 2> ' 4>' 3' A4 : ^' $ " ")' #+ + ' 0 ' 7 56' 34 '23@' ?2>8 35' ' 3' ; A44@ ' N ' N' 56 ' 6 2 : 3 ' 62A♯ ; ' >' 54? 56 >' E'/ ' M / N' 7 9 /M ' 764' 62A♯ >)' '2729' 543 '%>4 8' B A16> @ $ ' "*) + - ' M' F' 52< ' 56 '2' >' ' 644< 7 > 5 '56 > 3' [X'9 ; F' J ' 23' 623@' 72 ' 35' 354' 8)' 23@' A4)' 2' >' 10 . /)' 56 3' / A44< @)' 23@' ; 64A@' 2' %A9 3?' 'F' ' O♯ / J ' L' 128 ' 56 9' 3@ >' 56 ' 62@47' 4%' 8 9' >' . * FJ ' ♯' 56 >' 543? 72 ' 35 ' 354' 56' 54' >' 4%' 56 >' 84 56' F ' W' J ' 56 ' '569' 84 56' A < ' 56 ' ; 5' 7 3 ' ' 27 ' N)' N ' 543? '4%' 16 A@' 1A 2 : 56' 54' >' 4%' 6 ' 84 56' 7 ' L' L)' ' 2 B' 345' 74 > 569' 5625' 564 ' 64 A@ 5,148 ' 3@ >') - ' ; 5' B 2<' 56 ' 74>@ 43A9) 8 9',' W' M' 5+ ' ' "' L' 564 ' 62 5' 5' >29' % 5' 3' 2' A2>? ' / F ' /N /M ' 647' 62M♯ 6 5625411 ++ 56A6 '>' 4%♯ 56Z ' $)' @ +' / J ' ' * @26' 62A♯ 2?2 3' 52A♯ f ' @47372>@ . *, 0 /' 62 : ' 3' 56 '%44A 6' 52< 3?' U + ,' / /)/ ' 56 >' 62A♯ ; ' 2' %S 4%' *)' /0 ' U <' / W' %4>' 6 '>' 72 ' ; 9' ?> 25' 725 > = E) ' / / / L' 564 ' ; 2> 5' 34%' 56 '>' ; 5' 56 ' ' / & S M / '56 'A4 : '4%' 843 9' '56 '% ' 4%' 2A♯ ' '

'3 Z Z ; 64A@) 569 < 3?) 6 ' + 5 23@ 62 : 3? 5) $8 ' MJ ' 6256 >2 @ B 23 64>3 4 ' 4> F ' %4> 8 3 ' 9 ' 62 : ' 3 569 + ' M ' 2A %A 6 62A 56 '5 ' 4 4 > #4@) P ' *80 Y FF ' 7 ' <347 ' 7625 7 ' 74> 6 B) *% ' '4 * 7 ' 7 . 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$ # F ' F / ' 23@' 56 ' Y' 4% 2' < 3?' ' 2 8 43?' 56 8'
@% ' # / / ' 7 56' 2' ?> 25' \+ 7 6 3' 56 9' B>2 @' "4>@'
(# NW' ># 4@' ?43 ' B' 7 56' 2' # "4>@' 7 56' 4 3@
/ 8* # N / M ' "4>@' 62AA @ 1 3@ %>4 8' 6 2: 3' 7 56' +
! + # ' #+
M*,# F' / L' '345' :4 1 ' 4% 56 8' 5625' # %4>' 8 2 5 >9'
* 8# / ' 62AA' 345' at 5 AA' ' ; @ 4 ' # 56 3' 62AA 9 ' '
(# NW) / ' ' 54' # 4@' 7 56' 56 ' :4 1 ' 4% 5> 8 B6'
WL ' MO ' A < ' 8 ?659' 823' 5625' # ; 9' > 2 43' 4% 7 3 '
, 49 ' AA ' A ' 7 6 3' 56 ' 7 1< @' B > 6)' 56 > ' ' '
$
T$ # F ' F' 8 9' B 16' 62AA @ 5 A 2 ' # 43' 56 ' ?>2 '
*4 FN) ' 56 ' B44>' 2> ' 7 5 7 56' # 4% 56 ' 8 4 52 3 '
&&(# MO ' / ' 564 ' 8 2< 5' 5' 4%5 7 56' +
@ # FM / 7 AA' 12 ' 54' 14 8 @4 7 3' 3' 6 ' 2 43'
$8 ' /F ' 0N' 5>2 ?65 729' 9 ' 2:)' 56 > ' 14 8 56 ' 2' #
$!)
0# F F ' 56 > %4>' >2 A 25' 345 4% 3 7 ' 76 16' '
$
F b&0) ' N)' J5 12 8 ' 23@')' 7 A@' ?4 >@ ' 354' B4552?
$
0# F / /0' 2?2>' 12 5 56 ' 16 A@' 3@ >' 43 ' 4% 56 ' '
. 'F ' ' 62: ' 3 5' ' 54' @ 1A2> ' 14 3 A 4% # 4@'
F & # F' ' ; 5' 'B>4%23 ' 23@ : 2 3' ; 2 ; A 3? '
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(/ ' L ' 62 5 345' # 8 ' B' 354' 623@' 4% 56 ' 3 8 9'
MJ ' /0 ' A 5 345' 56 ' B 5' # 6 > 84 56' B43' 8 '
WW' J ' 6256' 6 ' 3' 23? >' ' B' 6 ' 5 3@ >' 8 >1 '^
' FF ' FF' < 9' 4% 2: @' 43' 6 ' 64 A@ >)' 4' 6 ' 62AA'
4B 3)' 23@' 343 ' 62AA' ' 6 ' 62AA' # 23@'
343 ' 62AA' 4B 3
MM ' J ' 62AA' / '56 ' 7 4 8 ;)' 2 56' 56 9' # 4@' ^
0# D# FF ' 8 9' # 4@' 6256' ' 56 ' A 43 -' 8 4 56 '
AA2 "' F ' / ' 9 ' B' < 3?@4 8' 4% 6 2: 3' 2?2 3 5' 8 3'
(# ' F ' # B' 54' 56 '%2 5A' 7 6 16' 64 A@' ; ' > : 2A @'
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"
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!
%*' # / /F ' 64B ' @ % >> @' 8 2< 56' 56 ' 6 2>5 +
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L)' J ' 7 6 3' U < 26' 62@' ; 3' # 23@ 72 '> 14: > @'
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; 5'56 9' 5625' 2> ' ' 5 %8' J# /W' $8 > H(+
/ ' L ' 6 2A 56 ' 1A 23 '56 ' A B >)' $8 ' Z# F
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! " ('
+' *%' / / ' '%4>' 56 '12 ' 8 239' 2> ' ==43?' 94
A A !
M*,# F ' F0 ' ' 7 AA' 52< ' # 2 7 29' %>4 8' 8 @ 5 4 '56 '
(# N / ' '564 ' 7 A5' 82< ' 2AA 6 ' ; @' 3' 6 '
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rH ! "
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$ # N ' F ' 2 < %>4 8 ' 43 ' a' 4% 6 2: @' 54' 56 ' 456 >'
*4' ' /F ' 23@ @ 5> 15 43' 62AA ; ' > 2@9' 25' 6 ' #
('J / ' W ' 564 23@' 62AA %2AA 25' 56 9' # 5 3' 564 23@'
/ / L ' M)' 56 ' "4>@' ' 43' 8 9' o ' ' 7 AA' 345' % 2>'
' ' % 5' 62@ 345' ; 3' 56 ' "4>@' 43' 4 >' F '
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B >1 @' 6 ' +
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#
$ # FL ' ' 564 ' 62A5' 25' 56 ' %A 6' 3' 56 '
% ' / J ' J ' n62AA 25' 56 ' %A 6' 4% 6 '%> 3@' 3' 56 '
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'
$8 ' FF)' / ' 843)' 2523' 6256' @ > @ 54' ' 94 '
) !
(# WJ ' / / ' A 5' 56 ' ' 4% 56 ' B> 43 >' 14 8 ' ; %4> '
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FN ' W ' 7 3 ' 845 3 56)' 2AA 8 >>9 6 2>5 @' @4 '
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23@' 7 56' ; 55 >3 ' # ; %4> '56 >' 9 '
5 %8<# N ' 23@' A44< 3?' B' 54' 6 2: 3)' 6 ' +
L ' /F ' # @ BA9' 3' 6 ' B > 5)' 23@' 2 56)' : i 69' @456
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FF ' %4>' 8 9' # 2> ' 8 239)' 8 9' 6 2>5 ' %2 35
#
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/ J ' AN ' 8 @ 525 43' 4% 8 9' 6 2>5 ' ; ' 211 B52 ; A ' 3'
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M' ' ; 55 >' '56 ' # 4% 56 ' 9 ' 5623' 723@ > 3?
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J # ' F / ' 56 8' 5625' 2> ' B> @ 35' 3' 56 >' 473' +
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! * # M' F)' 6 ' 7 AA' >2)')' 23@' 7 ' 62AA' A : ' 3' 6 '
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FA ' / / ' 62AA' ; ' % 2>% A # ? 3 ' %>4 8 ' 6 2: 3
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FN' / ' 56 9' <3 7' 6 8)' 6 ' : 23 6 @' 4 5' 4% 56 > '
. ' N / J ' 7 6 56 >' > ?65' 3' # 4% # 4@' 54' 6 2>< 3
L' F / ' 569' 6 2>5' 345' > ?65' 3' 56 ' # 4% # 4@
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743@ > a
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56 ' B>4B6 5 *4 2)' 5 78 L ' /F' $8 ' / /)' FJ '
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FM' NL ' 347' 6 ' 5625' ; 5>29 @' 6 8' ?2: ' 56 8' 2')'
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/)/ / ' 2>16 3?' 7 625' 56 ' B > 5' 3' 56 8' @ @' '
"
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(# F ' ' 72 ' @ 8 ;' 7 56' ' ' 6 A@' 8 9' B 21 '
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; ' 3'
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9 ' "4>@
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+%1% ' / J ' FN ' 8 5> ' 8 2@ ' # 6> 3 '%4>' _E 232'
"
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D $ # N / F ' 9 ' 6 2>@' : 4 1 ' 4% 74>@)' ; 5' 27' 34' ' /0
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(# / M' F ' 1623? @' 56 >' ? A4>9' 354' # 4% 23' 4C'
0' / ' /M' 43 ' A < ' 56 ' # 4% 56 ' 43 ' 4% 8 3'
! * # / F / ') ' 62: ' @ # ; 9' 8 3 >9' 4% B>4B6 5 '
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' ' J ' 8 3' 7 6 16' 2> ' 8 2@ ' 2% 5 >' 56 ' ' 4% # 4@'
"
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/ / J ' ' 5' ? : 56' 3@ > 523@ 3?' 54' 56 '
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FF)' 647' A43?)' 9 ' # 43)' 7 AA' 9 ' A4 : ' 8 BA 1 59' Ó
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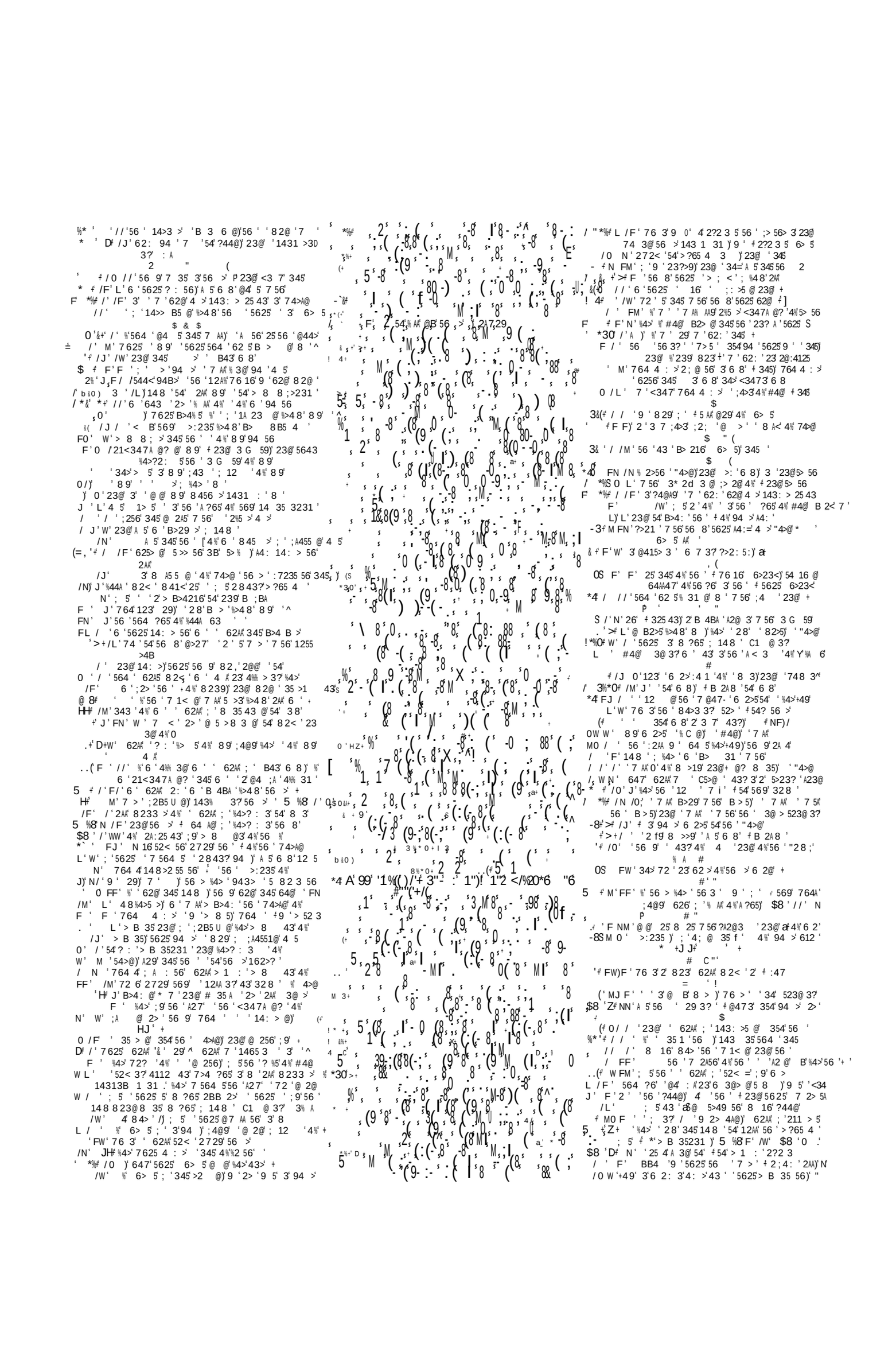

M

$!)

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' 4¾' ≠ 4¾' #4@ 4i ' / ' / ' 5>23 A25 @' ' 354' < 3?@ 4 8 ' 4¾' 6 '@ 2>' ≠ 7W 4' / ' F' 6256' 3' A2 5' @29 ' B4< 3' 54' ' ;9' ; ' + >≠ 564 ' 2>5' 8 9' ' / 7 A¾'; ' 2' ¾256 >)' 23@ 6 ' F 62A¾'; ' 54' 8 '2' F' / ' ;> 3? 3?' 8 239' ≠ 54' ?A4>9)' 54' 8 2< ' 12B52 3 'M' ; 5' 6> 5' 2 ' 2' ≠ 4: >' 6 '473' 64 N ' /N' 2' ?> 25' 6 ?6' B> 5)' * '56 ' ≠ 4¾' #4@ 0 ' L' 564 ?6' 6 ' 7 > ' 2' ≠ 9 5' A 2>3 @' ; ' 4 ; @ 31 M' M' 56 9' 1> 1 ¾9' 54' 56 8 A: ' ≠ 4¾' #4@' 2i> 6 / ' FJ ' 764' 6256' 5>4@@ 3' 3@ >' ¾445' 56 ' ' 4¾' #4@ /F' M' 23@ 14 >? 56' : >9' ≠ 7648' 6 '> 1 : 56 /' *30 /' ' 4 >' ¾ AA47 6 B' ' 7 56' '256 >' 23@ 6 ' + F' F ' 764 4 : >' @ 3 56' 56 ' 0 '56 ' 28 ' 6256' 345 56 ' '256 >)' ; 5' 6 ' 5625' 21<347 A @? 56' 56 ' + 'F' ; A4: @)' 347' 2> ' 7 '56 ' ≠ 4¾' #4@)' 345' 2BB 2>' L' ¾4>' 56 'B >B4 ' '*' #4@' 72 ' 823 ¾ 5 @ N ' /N' '256 >' 35' 56 'O' 54' ; '56 ' 2: 4 >' 4¾' 74>A@ 0 ' /F' 6 ' 5625' 6256' 5 ' ≠ ; 256' A ¾ .' 2=@' 6 ' 5625 6256' 345' 56 ' ≠ 4¾' #4@' ; 256' 345' A ¾ ' '≠ F /L ' 56 '56 3?' 2 56' 56 ' 0 ' 4¾' #4@)' 764' ; 256' 6 ' 9 . # 0≠ / FW ' ' 8 ?65' 62: ' 35' 56 ' 2 7 2 9' 7 56' ≠ M*, ≠ /0' / ' 56 3' 23?' 4 ' 23@' 56 ' 16 A@> 3' 4¾' >2 ≠ 56 ' ≠ 354' 56 ' "4>@)' ,7 8 ' F/ /W' $ ≠ A ' /J ' 7 35 5; ' ≠ 5625' 56 ' ' 8 29' ; ' 7 53 ' $,)≠ 0 /F ' 272<)' 272<)' ;4>26)' 55 >' 2 / b&0) 'N' F' ; ' ≠ 7 > ' 2' 564 23@)' 23@¾ : ' (' ' ' 3? 354 6 8' 2' 3 7' ' ≠ NF' / N ' ' 23@' 6 ' 6256' B 5 2' 3 7' ' 3' 8 9' 8 4 56' WW' M /' 12A¾' 54' > 8 8 ;>231 ' 8 9' 0' 3' 3 ?65' / W' N' 647' 62A≠ 7 ' 3?' "4>@=' ≠ 3' 2' 5>23? 'A23@^' ≠ >≠ /' 347' 7 A¾' 03?' 2' +' 4¾' 8 9' ; A4: @ 0' A '56 '>23 48 @ 62A¾' 148 '54' V 43' 7 56' +F F' i' / 'FF' 4 >' ≠ 'B 5'54' A 31)' 4 >' > +4 1 3?' 25 23' 3@ -3≠ 0 /J ' B 2< 3?' 54' 94 > A: ' 3'B 2A 8 '23@' B D > 5 2A' + *(≠ H+ /M' 2@ 8 43 6 3?' 43 ' 23456 >' 3' 69 8 3)' B D > 5 2A' + '≠ /0' H' 56 9' 3?' 56 ' ≠ 4¾' 4 '23@' +' 4¾' 56 ' "2 8 ; %*M≠ /N' /W' 6 '5625' '+' 23?>9' @ 26' 56' ¾44A 6A9' F' 8 ≠ F)' F ' 9 ' ; '345' 62< 3' 3' 8 3@)' 4>' 5>4 ;A @' / W ' 345' A¾ 7 AA @)' 345' ≠ 23?>9)' 345' ? : 3' 54' -3 < ($) 1 ' 0) / F ' 23@' 564 ' 6 @562: S' 4M 8 4> ' ≠ 2 (, . "' / M /M' ' 7 6 16' ;>4 ?65' 6 > ' 8 2 5 > ' 8 16' ?2 3' ; 9' ' *30 / FW ' 2¾5 >' 56 ' ≠ 2523' 35 >== 354' 6 8)' ' ' 5 &' F ' 7 6 2 8 292 ; @ 6 148 3?=' > < ¾ AA >- $ $ $ A5 &≠ 'O' ' 7 A¾'; '2' 7 ¾5 7 53 ' 2?2 3 5' 56 '+ '≠ F/ ' L' 23@' ≠ 62A¾' 62: ' 56 >' B2>5' 3' 56 ' A2< ' ' $ $ (≠ NW' J' 56 9' 62A¾' 148 ' *O 56 '¾4>' 569' # . ' ≠ 5≠ 25' 4¾' *43?' 5 8 ' 62@' ;1 5 516 @' 56 8' 6& 3' + ' '$') /*3' >≠ /L' ; ' 8 2< 56' ≠ 23@' ; 3@ 56' B' M ' 8 9' 4 A ' 3' : C @)' ; 5564)' ' "4>@)' 647' A43?' ' / /L' & ' "4>@' 6256' 162 5 3 @ 8 ' ≠ ; 5' 345' ? : 3' >4 ' 4 : > W ('0 / ' 56 > ' ' ≠ : A ' 62: ' 3' 3@ >' 3)' /M' @ 8≠ /N' F / ' 7 6 3' ' 3@ 8 9' ¾4 >' N'+ @? 8 35 ' ! 3≠ /)FJ ' 4¾' 647' 8 16' ≠ B 3 6 8 35' BB4 ' 9 ') ' '$')' 9 (≠ WW' F ' 8 9' ≠ >23' 3' 56 ' 3 ?65)' 23@' 1 2 @ 345' ≠ / 'M' ; 5' 4 3@)' 23@' ;>)' 23@' B 5> ¾9 3?' ≠ ' ' /M' / / ' ;A2 B6 8 @ ≠ 4@' ; 12 '4¾' 56 >' B2 3 ' 23@ + $ " (0' NJ ' F ' 2>16 > ' ≠ ?> : @ 6 8' 23@' 645' 25' 6 8' $ $)' 0≠ ' /M' ' 7 A¾' ? = 25A9' 8 A5 BA9' 569' ≠ 23@' 143D 1 B5 43)' 3' ≠ 564 ' 62A¾'; > 3?' ¾4>56' 16 A@> 3)' /W NF' L' ¾' 8 16 ¾'; ¾2A¾' 6 8)' 56 3' 62A¾' 9 ' ;> 3?' #& ,≠ @473' 8 9' ?>29' 62 > ' 7 56' ≠ 54' ?>2:)' NN' FJ ' 4¾5' M /N M*, ≠ 'W /62: ' 6 2>@' 56 >' 1>9' ¾4>' '<3 7' 56 >' ≠ $ ≠ FL ' M0' 56 ' "4>@' 62A¾' ? : '56 ' ≠ * ' 8 3@ F' 28 ' FF M N ' 4¾' 6 A¾' 148 B2 @' 8 '2; 4 5)' /L N ' *4 F / /W ' #4@' @ 5>; 5 56' ≠ 3' 6 '23? > N / FF' 23@' '5 >3 @' 354' +49' ; ¾4> ' 6 8' ' (L /W ' 23@' 8 9' 2' '1435 > 8 2AA9' ; ¾4> ' 8 ' J / '9 5' '56 >' 5> 3?56' A2; 4 >' 23@' + / /M' '56 ' '4¾' @ 256' 148 B2 @' 8)' ' ¾4 3@' 5>4 D ; A ' 23@' ¾*' ≠ / 0 / ' ; 5 ; 9' a≠ 4¾' 6 2>5' 56 ' B > 5' ' ;>4<5+' .. ' +/L ; '5625' 31> 2 56' <347 A @? ' 31> 2 56= W' ' ; 55 >5623 A2 ?65 >)' 6 2>5' 8 2@ ' ; ≠ 0' / ' 23@' ≠ 23@' ?6 3?' 62A¾' % ' 2729 0 / /)' 56 ' 62A¾' 9 '62:)' 9 ' 62A¾' '@473' 3' ≠ 0 ' 2' 8 23' 4¾' ' 23@ 21G 2 35 @' 7 56' ?> ¾)' N' S /' /F ' ' ¾56 > ' ; '239' 'A < ' 354' 8 9' ≠ * ≠ / / ' ≠ 4¾5>2: 2 3?' 7 4 8 23 62A¾' 148 '43' 6 8' 5 ≠ FN L.' 56 '2> '56 ' ; ? 33 3?' ¾' 5 %8' / 'L' *30 /M FF ' 23@' 9 ' 347' 56 > ¾4>' 62: ' ' 6 5 ' 7 A¾' '94 ' 2?2 3' 23@' 94 >' 6 2>5' 62A¾' > +4 1 ' F' *¾≠ W' / '¾4>' ?4@A9' ' 74>< 56' > B 35231 '54' 2AD : 25 43)' ; 5' 56 ' ≠ 4¾' 56 ' 74>A@' 74>< 56' @ 256' / & ≠ M / 'B >1 @' 56 8 A: '56>4 ?6' 7 56' 8 23@' ' '≠ F / N ' 56 > ' 62A¾'; '34' 8 4> '@ 256)' 3 56 >>' $ $)' > ¾≠ / /F ' 23@' 56 9' 62A¾' 345' '239' 8 4> ' 25' 2AA / 3 ≠ N / '5625' 9 ' ≠ 345)' 2 ' 456 > ' 62: ' 34' 64B $ $ ' ' 5 ¾*' ≠ /N / ' : 3' 3' A2 ?65 >' 56 ' 6 2>5' ' + 5 ≠ / J FF ; ' 7 352 729 N ' $8 ' /L ' F FM ' 8 9' 4 ≠ 5' C1 @ 3?' ' 5$4' @ 256)' 5 %8 / ' N *30 /M F ' 9 ' 62A¾'; ' ≠ ; 5' 4>>47' 62A¾'; ' 5 >3 @ +F' *¾$ M / '2 ' ' 9 5' 2A7 29' >5+4 1 3?)' 2 ' B44>' 9 5 " D 0≠ F ' W ' ≠ 4@' ; > 256 @' 23@' 823' ; 128 ' 2' A : 3?' + NJ ' M' ' 8 9' ≠ 148 ' 345' 564 ' 354' 56 >' 1> 5 M*, ≠ /0 ' 23' 4¾¾ > 3?' 54' "4>@)' 54' 8 2< ' 23' ?> 2543 ' 8 35%4>' 94 >>' /M' AW / / ' $ ≠ / 0 $ ≠ / / / ' 23@' 54' 0 ' 6 8' 7 56' 2A¾' 94 >' / ' B¾4 : 56' 94 ' <347' 76 56 >' 9 ' A4 : '56 ' "4>@' 94 >' ≠ 4@' 7 56' 2A¾' 943>' ' * 3≠ FF 0 ' / b&0) ' F N') M' ¾'56+' ¾> 3@ & ' 2 '56 3 '473' ≠ 35 1 '56 / ≠ & ' 56 ' 4 A ¾' *Me2_ ;43' 72 ' <3 5 7 56' ≠ 4¾' 2 : @)' 2B@ 6 'A4: @' 6 8' 2 ' ; '473' ≠ H≠ c' ≠ /W / b&0) ' /W' F / ' A 5'56 '16 A@ ' ≠ 148 ' 354' 6 8' 2?2 3 F b&0) ' F 'FO' A < ' 6 8' 72 ' 56 > ' 34' < 3?' 5625 5 >3 @ 54' 56 ' "4>@' 7 56' 2A¾' 6 ' ≠ F' 3≠ *0≠ N /' ' 8≠ *0≠ FF /J ' 347' 5' 94 >' ≠ 54' <' 56 ' "4>@ *4' F ' 7 69' 'A ¾ ' ? : 3' 54' 56 ; 55 > 3' ≠ /F' A ' 3' 764 '623@' '56 =' 4¾' : >9' A : 37' 56 3?' ≠ / ' M' 56 > ' 34' 3' 5)' ; 5 74 3@' 23@ ;> FF' FJ' 23@' 343 ' 123' < B' 2A : ' 6 '473' + F ' 4 >' ≠ 72 5 56' ¾4>' "4>@' ; ' '4 >' 6 AB' N' FF' 56 ' "4>@' > @ 8 56' 56 ' ≠ 4¾' 6 ' : 235 NF / ' 2 5; 62>5) 4B235 56' 8 9' >' 2¾5 >' 56)' '#4@ NJ) / 0 ' #4@' 7 AA' > @ 8' 8 9' ≠ ¾>4 8' 5A ' ?>2 : 0M' /)' ¾4>' 564 ' ;2 5' @ A : > @' 8 9' ≠ ¾>4 8' @ 256' / W' J)' 6 ' 25 ¾ 56' A43? 3?' $ 23@' ¾ 56' 6 3?>9. ' ((≠ / F / W ' 56 ' "4>@' 62A¾' B> >: '569' %*' ≠ L M' ; 5' 6 '5625' 33 56' 2?2 3 5' 8 ' 7 >43? 56' 6 ' 473' + "' /W' 56 ' 8 >1 ¾ A' 823' @4 56' ?44@' 54' 6 ' 473 ' 23@' 6 ' 5625' 7 33 56' ≠ ' 7 / / J ' 56 '@ > ' 21148 BA 6 @ ' 7 5' 54' 56 . A J)F' 56 ' ≠ ; ' 7 564 5' <347 A @?)' 5' '345' ?44@ .. ' N L ' ¾4>' 7 64 8' @4' ' ; > 2: ' 8 9' . 4¾?44@' ^ M ' 23@' 6 ' ' ; '345' ¾ AA @' 7 56' ?44@ W FL ' 7 6 16' 9 5' 8 9' ' < 6)' ; 5' ¾ 3@' 345' 3 ≠ FM L ' 56 '@ > ' 4¾' 4 >' ≠ '54' 569' 328 NN F ' 5625' 6 ' 123345' @ A : >' 6 ' 34>' 29 0 / ' 76 3' 62A5' 82< '6 ='23' 4¾¾ > 3?' ¾4>' 3)' /F 00 '148 ' 354' 8)' 6 2>' 23@' 94 >' . ' 62A¾' A : ' ¾≠ M /M' 9 ' 62A¾' ¾3@' > 5' 54' 94 >' i 25)' / /)FJ ' ' @ 8≠ /L N' 2A¾' 4 A '2> ' 8 3)' 2 ' ≠ 4¾' ¾256 >)' 4 4¾' 43' ' 8 3)' 5A ' 5625' Y 33 A6)' 5' 62A¾' @)' F FW' @4 56' 5625' 7 6 16' '> ?65' 6 ' 62 ' 0' ' 6 ' 5&.≠ M)' W' 5=¾5 ¾> 5' 4¾' 39' AE @9' ¾4>' 56 ' 3' 4¾' 39' + ' ,≠ /)' ' 4¾' > ?65 4 '2> ' 3' 623@' 4¾' #4@ /M' *N' 34>' 56 ' ≠ > 1 : @ B' 48 56' 2?2 3' 2i ' / FL ' ; 5' 2> 'N* 5 2 ; A '54' < A¾' 56).)' ¾ 2>' 6 8' 76 16' '2 ; A '54' @ 5, Z=' ; 456' 23@' ; 4@9' 3' * ¾ / M FM ' ¾' ?2 3' 764 A ' 74>A@)' 23@ A4 '6 '473' 7625' 62A≠ 2' 82N* ? : ' 3' C1623? '¾4>' a≠ ' 5 %8' L OW FF W' 564 ' 62A¾' A4 : ' "4>@' 7 56' 2A¾' 569' 6=2:5' 23@')' 23@' 7 56' 2 ≠ 569' i@2><' / F ' ">i<' / FW' FM' 0L' 39' ≠ ' C1 @ 3?' 4>>47 ¾ A)' 5 %8 / N N' $8 ' /' NM' 8 9' . ' @456' 8 2?3 ¾9' 56 ' "4>@' F 0' 2' 74>@' 62A¾' B >1 '56>4 ?6' 569' 473' 2A 4 /F' / J /' 7 A¾' 9' 54' 8 9' ≠ 25)' @> 3< F / / J ' 3' 94 >' B25 31 ' B4 ' 9 ' 94 >' + . ' F N / '56 > ' 7 > ' 2@@ @' 54' 56 8' ' S 5D ≠ N ' 1 >52 3' 62: '5>4 ;A @' 94)' ;: >5 3?' 94 >' * 0≠ / / ' A 5' : >9' ≠ 6 ' ;+ 15' 54' 56 ' 6 ?6 >' ! 4≠ N ' /F ' 74>@' 4¾' #4@' B >1 3?' 54' @ : @ 3?' 4¾' a≠ D+ / J ' 76 16' 64B ' A ¾ ' 62: ' 2 ' 23' 23164>' 4¾' 56 ' / J ' ; 54¾' 56 8' 5625' ; A : ' 54' 2: 3?' 4¾' 56 ' / dAW ' 4 ; 9' 5; 3' ¾4>' 56 9' 72516' ¾4>' 94 > ≠ / ' F / ' 56 ' 7 4>@' 7 6 16' ' 2 ; A ' 54' 2: ' 94 > 0' ' 6 ' + 2A¾' 2: ' 2' '¾>4 8' @ 256' 23@' 6 @ ' ≠ / ' J ' 3@' 4 ¾' 94 >' ¾2 56)' 56 ' 2A: 25 43' 4 ¾' 94 > ' / / ' ¾>4 8' ¾A 6A9' * 5' 7 6 16' 72>' 2?2 3 5' 56 ' + N / J ' 148 8 5' 56 '< B 3?' 4¾' 94 >'. ' 54' 6 8' '≠ / M '23@' : >9' A : 3?' ≠ @ @' 3' 56 ' 2')' Q / b&0) ' /L)' N / ' ¾4>' 6 > ' '2' '4¾' 2; 3@231 ' 4¾' >2 3' (≠ NW 0 ' #4@' '?43 ' B)' 56 ' "4>@' 7 56' 56 ' 4¾' 2' 5> 8 B 5 *30 L ' 6 2> 5' 5A ' ; 5' 123 5' 345' 5 A¾' 76 31 ' . ' F>' F ' @@ B¾9' 56 > ' 12 8 ' 2' a≠ ¾>4 8' 6 2: 3' * ≠ / /L ' : > A9' 56 >' 7 35' 354' 2A¾' 56 ' 2>56' / 4>)' /N ' W ' : 3' 56 3?' 7 564 5 A ¾ ' ? : 3?. ' $)= %*' ≠ /N '2' 6 2>5' '56 'A ¾ '4¾' 56 ' ¾A 6)' ; A 5' 3 :9 /A ≠' A A ¾2 945; > ; ?1435>2>954= @ 415> 3 F' & ≠)' W' ¾4>' #@ 5 6256' ?> =44 ' B > 5' 4¾' 2' ≠ 8 3@ / ' 64A@' ¾2 5' 56 '¾4> 8' 4 ¾ 0' 74>@' 564 ' 62 5' 6 2>@ N)' 76 3' 56 9' 7 A¾' 345' 3@ >' ' @415> 3 &≠ / ' J ' 6 ' 8 29' ; ' 2 ; A ' ; 9' . ' @415> 3 '54' C64>5' F' ' B 2< ' 56 '5; 3?2' 76 16' ; 148 ' @415> 3 L' ' B 16' 5625' 1233 45' ; '143@ 8 3 @)' ¾+ ' ≠ M / 0' 76 > ' '569' U 2A 23@' .P 4¾' 569' ; 47 A ' @ 8≠ W' W)' 23@' 345' 56 ' ≠ 2?2 3' 4¾' 84 352 3 ' * (' F ' / ' 23@' 23' 2A>2> 8' 3' 8 9' 64¾9' 84 352 3' 5 ≠ M F ' 56 > ¾4> ' @4' 345. ' 2' 5> 8B 5 ' ; ¾4> ' 56 / *¾≠ ' / ' 23@' 62: ' 345' 162> 59)' / 2 8' 2 ' . ' ; >2 / 0 0F' ¾4>' 56 '5> 8B 5' 62A¾' ≠ @ 2@' ; '>2 @ (≠ 0L' '56 > '5 '34' 3' 8 9' ¾A 6' ¾4>' 569' 23?' >)' W ' . 'H+ /M' 6256' ? : 3' 6 8' 56 'B >¾ 15 3' B> 31 ' 4¾' 94 ' 2AA $ ¾≠ / ' FJ ' 56 ' ¾256 > ' 62: ' 25 3' 2' ' ?>2B)' 23@' 56 ' 16 A@> 3 '5 56' 2> ' 5 43' @?)' @ 8' / L F0')' ! WM*, ≠ F / ' C 9 2> ' 56 ' A23@)' (+ '≠ FO ' *4' N ' L ' 56 9' 56 25. ' 7 1< @3 '> 2B' 56 ' 2 8 ' '* /FM' 0 ' 56 9' 5625' ¾)' 3' 5 2> ' 62A¾' > 2B' 3' +49

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0♯ FN ' 6 ' BA21 @ 16 > ;- 3)' 23@ 2'%A2 8 3?' ♮
$,)♯ W /L ' 29)' 56 ' '4%'56 ' >% >@ 23@ 4%' # @ 43)' F '
*4' J ' FJ ' ; ' 9 ' 2%>2 @ ' 4%'56 ' ' %4>' =>256' ; > 3? 56'
56 ' B 3 6 8 35 ' 4%' 56 ' +
FW /N ' %'16 A@> 3' ; ' 8 C A5 BA @)' 5' '%4>' 56
&♯ W' /F' %' 6 '5 >3' 345' 6 ' 7 AA' 7 6 5' 6 ' +
/W' ' ' @ A : >'%>4 8 '56 ' 7 1< @' 7 6 16' '5 6 9
NO ' ' ? >@' 56 9' ♯ 43' 5 6 9' 56 ?6)' 7 56' 56 9' ?A4 > 9'
00 ' F / ' 9 5' 6 ' 74>@ ' 7 > ' @ > 2 7 3'
♯ F)' N ' 325 43' 62A♯ 3M5 A %5' B' ' 2?2 3 5' 325 43)'
5&.♯ N'
N ' M ' 56 ' ♯ 4%' 56 ' "4>@' '% AA @' 7 56' ;A44@
MO ' /F)' 56 > %4> ' 7 AA' _' 3 8 ; >' 94 ' 54' 56 '
MM ' /M' ; 9' 6 ' ♯ 7 AA' 56 ' "4>@' BA 2@' 7 56' 2A♯ M 6'
%♯' / 0 F ' 16' 2 ' 2> ' %4>' 56 ' ♯ 54' 56 ' ' N ' / /
NW ' M' '564 ' ♯ 4%' 56 ' "4>@)' 6 4 7' A43?' > ' G 5
7 ♯ N ' J ' 56 9' 5625' ; ' A2 3' 7 56' 56 ' ♯ 2> ' ; 55 >'
@ 8♯ W / 0 ' 56 '0' ' 7 564 5)' 56 ' B 5 A 31 ' 7 56 '
[.3♯ / ' W' 272 <)' 0 ' 2?2 3 5' 8 9' 6 B6 >@
5 ' / ' N' / 12 8 ' 345' 54' 3@ B 21)' ; 5' 2'
FM 0F ' 5625' 52< ' 56 ' ' 62A♯ B 6' 7 56' 56 '
$8 ' F 0 ' 2' ♯ 62A♯ B >1 '56>A ?6' 569' 473' 4 ♯
! *%0♯ L ' 0 ' B2>25 ' '%>4 8 'A4 : '4%' 6> 5^ 62A♯ '^
/ ' N' %4>' 6 ' ; 2> 56' 345' 56 ' ♯ 3' : 2 3'
-3♯ M' /W' '4% B > 5)' 7 6 16' '56 ' 74>@' 4%' #4@'
0 N ' /F ' 23@ 62>B >' 5623' 239' 574 @? @ ♯
(# #
*A%2h)' /F ' J ' 7 6 3' @ B2>5 @' 6 ' 7 35' 354' 56 >' +
/)' 0N ' 6 '52 ?65' 56 8' 3' 56 >' ' 5 %8' M' F)
F 'M)' 23@ A4 : '56 '16 % 25 ' 3' 56 ' ♯ 5 %8 /F) J'
$8 ' /' N
$8 ' N ' /M' 2 ' 6 ' 1 54 8' 7 2)' 6 ' 7 35' 354' 56 ' +
W 0 ' 6 'A4 : 56' 4 >' 325 43)' 23@ 6 256' ; A5'
*30' *L ' F ' ' : >' 52 ?65' 3' 56 ' ♯ 23@' 5 8 BA '
+`(' /N)' 56 9 7 35' 354' 56 '43' 56 ' 2 ; ;256 @29
/L ' N' 2 @' 6 '> 2 4 @' 3' 56 ' ♯ : >9' 2 ; ;256
'♯ F ' J ' ; 5' 2> '56 ' ♯ 4%' 2523

& $ "
M*, ♯ N ' L ' %4>' 56 ' 1A4 @' 4%' 56 ' "4>@' 72 ' 43' 56 ' +
; 9' @29)' 23@ % > ' ; 9' 3 ?65)' $ S J /L '
$ S FN 0)' 647' ?44@A9' 2> ' 569' ‹· ' >2 Aa
*4' M /L M ' 56 ' A ?65' 62A♯ ; '@2><' 3' 6 ' ♯ 23@ 6 '123@A '
FJ ' N ' 7 6 3' 56 ' 1> 5 4%' #4@' 72 ' B43' 8 9' i'
&♯ /0 ' /' "4>@)' ,7 64' 62A♯ 2 ; @ ' 3' 5 9[♯ Z
FW ' 3' 56 ' 1> 5' 4%' 6 ' 62A♯ 6 ' 6 @
LN ' ' 647' 2 8 2 ; A ' 2> ' 569' 1‡ ' "4>@' 4%' 4 5 '
/ F ' W ' 7 ' 7 A♯ ?4' 354' 65 ' ♯ 74> 6 B'
0♯ / / ' NO ' 6 ' 62A♯ BA235' 3 ' ' 4%' 6 ' B2A21 '
7 * ' S+ &3 3' 5625' @29' 7 AA' '>2 ' B' 56 ' ' 4%' 2: @
5 ♯ W N ' "4>@)' %'564 ' 7 A5)' A 5' ' 8 2< ' 6 > ' 56> '
♯ 5 %8 J ' Q $8 ' J '
: $5 ' /0 ' ' 23@ 7 AA' ; A@ 2?2 3' 56 ' ♯ 4%' 2: @'
F %♯ >.·' /' %' 4 >' 64 ' 4%' 56 ' .· 7 > ' @ 4A : @'
! 4♯ L ' F ' 56 '5> ' ♯ 76 16' 56 ' "4>@' B 5 16 @'
F ' ♯ / ' 56 3<' 5' 8 5)' 2 ' A43?' 2 ' ' 2 8' 3' 56 ' &
& "
%* , ♯ F / 0 ' 56 ' &♯ 7 > ' 7 > 55 3' 43' ; 456' @ '
(♯ F ' '5 4 ' B> B2> 5' 2' ♯ ; %4> ' 8
EJ ' FF ' A H 56 >' i ' ; 14 8 '2' 32> ' ; %4> '56 8'
' '569' 16 > 'A < ' 4A ; : 'BA235 ' 2 ; 4 5 569' ♯
%* 6' ' ' 7 > 5 ¦55: :3 43' 56 ' ' + 4%' 569' 6 2>5)' W' '
5 &♯ ; ' W' 56 ' + 4%' 56 ' "4>@' '143% 8 B5 ; A '
5 + /0 ' FW' 6 ' 2 @)' 9 5' 56 ' @4? ' 125' 56 '1> 8 ; '
76 16' %2A♯ %>4 8 '56 .' 8 5 >- i ' 5 %8 +
D F ' A 2 : '56 ' 74>@' 4%' #4@)' 23@ >: ' &+
/ *%♯ / F / ' 1 B' 4%' "4>@' 2 @ @ : A)' 9 ' 123345 ' ;
B2>52< > ' 4%' 56 ' "4>@ ' &♯ 2f@ 4%' 56 ' ♯ 4%' @ : A
F *%♯ ' ' 345' 3' ' 4%' 543)' ; 5' f 6 9' ♮ 4%' 6 2>5
" $! W
/W' M' 2' ; 9 74>5)' 23@ 2%4> 5 8 ' :3 ' 2 ' 2' M*, '>+/J ' 9 ' 62A♯ 345' 8 3 6' %>4 8 ' 94 >' @2 A9'
♯ 0 /F ' 56 ' "4B B ' 23@ 7 3 '2> ' 3' 56 f ' ,3 5
FN ' L ' 56 ' 8 >56' 4%' ' 1 2 56)' +49' 1 2Q A6
&' $ #
5 3♯ J+W' 56 ' : 4 1 ' 4%' @4 : ' ♯ 43' 56 >' ;> 2 5 '
-' M*, +JU+ ♯ 564 ' 62A5' 345 i)' 56 ' 32 8 ' 4%' 56 ' "4>@5 ; 9'
#4@' 3' : 2 3)' 345' 64A@ ? A5A ' 0 ♯ 4♯ '
!$ ♯ /M' ' 2 @)' 9 '&♯ 544' 8 16' B43' 94)' W'
/ *4' '56 ' A4>@' ?2 :)' 23@ 56 ' "M>@' 6256' ' 2729

*4' FW)' L ' 7625' '56 ' 64B)' 7 6 3' #4@' &♯ 2729' 6 '
4 ♮%' =
A F 5'56 8' ; i)' 356 '@ : 1 '5625' 56 962 : '
FF ' J ' 6 ' 5625' i' 8 ' 4 5' 4%' 56 ' 74>3 ;)' W / ' M
J= / /' 2 @)' ' 7 AA' i' 6 @' 54' 8 9' 729 '
0 / / ' 23@' i' 345' 5 ; 9' 64A9' B > 5'%>4 8 ' 8 '
' W / ' ' ♯ 6 8)' %4>' 5A = ' ' 343 '54' @ A : >' 6 8'
!:F ' FN ' ♯ 8 ' 345' 2729' 3' 56 ' 8 @ 5' 4%' 8 9' @29 '
J ' L ' 23@ A 5' 23456 >i)' 6 ' 4% 1 '
/ /M' / ')' 7 AA' i' 56 ' 1 B' 4%' 2A : 25 43)' 23@ 14A♯
/L ' W ' "4>@)' ♯ 8 9' B2>5' 7 56' 56 8' 5625' 6 AB' 8 '
/ / J ' / / / ' 569' 5 5 843 ' 62 : ' ♯ 2 ' 23' 6 > 5 ? '
54>' : >
%*' ♯ FM ' 56 ' "4>@' =62A♯ < B' 569' %445' %>4 8 ' ; 3?' ♯
' /)' FO ' 23@' ' 7 AA' i' 2729' 2A♯ 69' 3'
♯ N ' F ' 56 ' 234 35 @' 4%' 56 ' "4>@' 72 ' i
5 ♯ ' W ' 6 8 A♯ i' 4 >' 3% > 8 5)' 8 @ ; 2> '
/ /F ' %>4 8 ' 6 8' 62A♯ ; ' i' 2729' : 3' 5625' 6 ' 6256)'
$8 ' L '
F / ' N ' 56 ' < 3?@ 4 8' 4%' #4@' 62A♯ ; ' i' %>4 8 ' 94 '
FN ' N)' 43 ' 62A♯ ; ' i' $8 ' /W' N)
5 %8 ♯ ' 2523' 148 56)' 23@ ' 2729' 5 ' 74>@)'
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/ J ' ♯ 6 @' 54' 94 > A :) i^ /W' ' . >+H>♯
$8 ' / NF ' 5625' 244@ B2>5)' 7 6 16' 62A♯ 345' ; ' IP 2729'
/ J ' L ' %' 62 : ' i' 239' 56 3' ' %>4 8 ' 239' 823'
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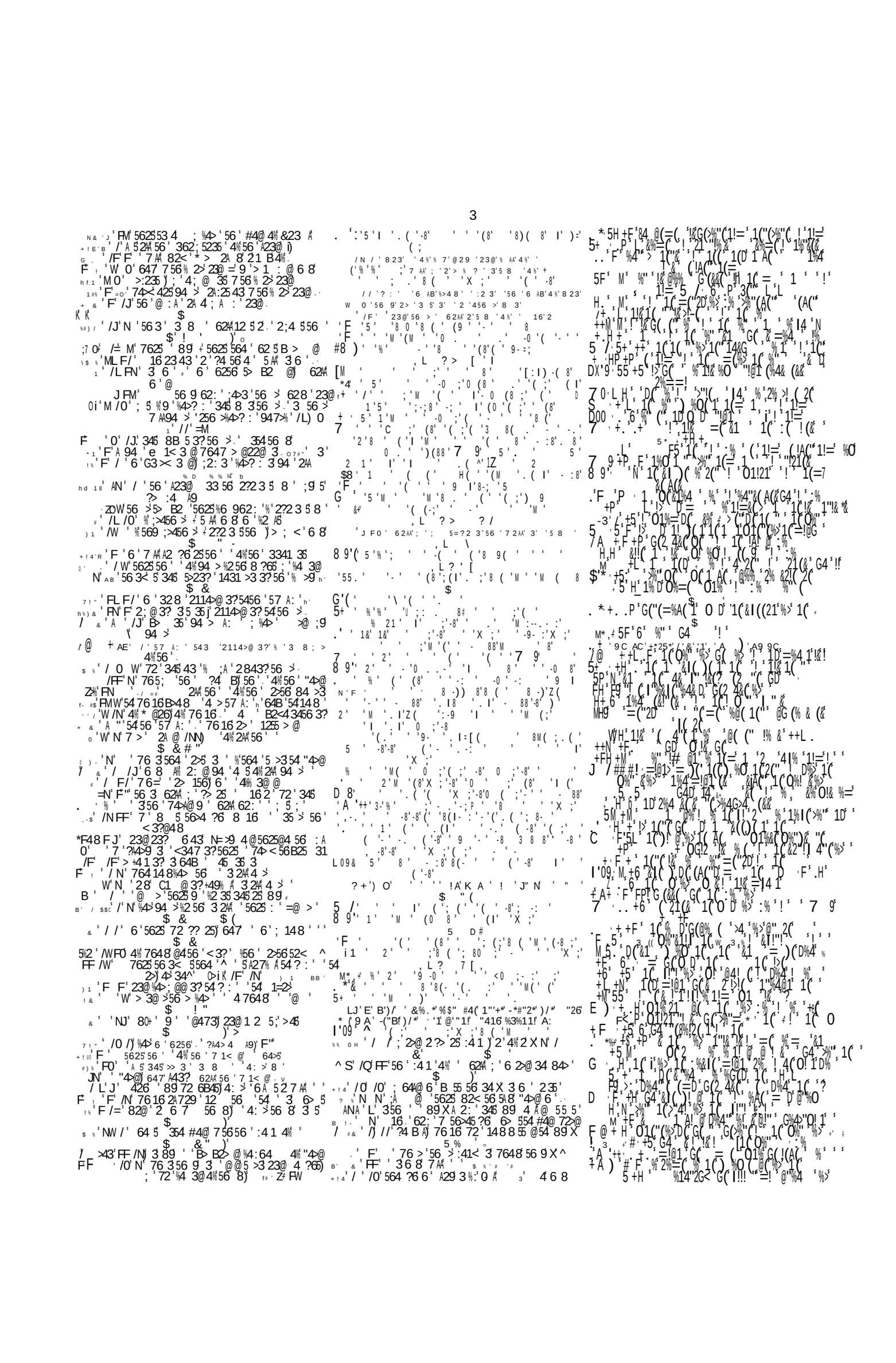
/ /L ' 34' 823' i' 5%4 8 ' 8)' 'A29' 5' @4 7 3' 4%' 8 9 A%'
M ' FF ' 23@ 94 >'+49' 34' 823' i' %>4 8 ' 94 '
F ' F ' 56 9' 62 : ' ' 2729' 56 ' "4>@'
* ♯ //' FW ' 76 3' ' 62A♯ ' 2729' 56 >' 3 '
3&(♯ J ' W' 23@' %' B43' 6 8' 56 '%4>8 ' 4%' 2' >: 235'
*(♯ F ' ' i' 5' 4 5' 4%' 56 ' 729)' 32 A 3?' 5' 54' 1>4 '
!2 4♯ >♯ N ' 34' 823' i' 56 ' 6434 >' 54' 6 8 A%' ; 5' 6 '
/ ' J ' 6 ' i' 2729' 56 ' %> 5)' 5625' 6 ' 8 29' 52 ; A 6'
J ♯ / / J ' 76 > 354' 94' @4' 7 A♯ 5625' 9 ' i' 6 @
256 ` ' 0 ' 6 ' 72 ' 823' % 5 @' 54' i' 2 729' 4 >' 3 '
'♯ FF / J ' %' 239 8 23' ' 2729' %>4 8 ' 56 ' 743A ' 4%' 56 '
; 44<)' # 4@' 62A♯ i' 2729' 6 ' B2>5' 4 5' 4%' 56 ' ; 44<'
N"
M*, ♯ ♮ L ' 56 ' &♯ 4%' ; > 1< ' 76 16' 56 9' @ @' 8 2< '
(♯ J J)' 7 ' B 3@ 4 >' 9 2> ' 2 ' 2' ♯ 5625' ' 54A@'
%*' ♯ ' L ' 56 ' 74>@ ' 4%' 2' i)' ; 2> >' 2> ' 2 ' 74 3@)
' FM ' FF
$8 ' FN / /)' 56 >' 74>@ ' 8 @' 54' 56 8' 2 ' @A ' '
"
5 ' F0 FL ' 52< ' 56 > %4> ' 56 ' i %>4 8 ' 6 8)' 23@ ? : ' 5'
" !)' +
/ *4' ♯ ' 64 A@' 2' 823' % A♯ 4%' i ' ; '+ 5 % @' ^
' 8 '/0 ')' 64 A@ 6 ' > 2 43' 7 56' 3B > 4% 52 ; A ' + '
5 ' [J♯ AO ' 56 9' 8 ?65' 3523 ?A ' 6 8' 3' 6 '
" !)' #+
M*, &' J ' 23@' 56 ' "4>@' &♯ 7 56' 4 '
$ ♯ FN ' 62 : ' 3' 5625' # 4@' @456' ♯ 7 56' 823'
/ ' F ' i' 34' 8 4 > ' 4 C1 @ 3?' B > 4 @A9'
(♯ / / J ' FW ' 4' 62A♯ / ♮ 4%' 569' 743@ > 4 ' 74><'
$8 ' FN F ' 6 2> 5 ; >3' 7 6 A ' 6 ' ♯ 7 56' ; 9' 56 ' 729' ^
*30 J ' W' 3' 6 8)' 23@ 5' '6 ' 5625' i' 7 56' 56 '
-3♯ 0 ' N ' 3 56 >' % A5 3)' 34>' %4A 6' ♯
" ! $
"♯ /)/ ' 56 > ' 2> ' 8 23 9' 3> A9' 23@ : 2 3' &♯
X
' >L ' ; 5' 56 ' 543 3 ' 123' 34' 823' ' ' 3> A9'
$
`= \#/ ' M' @ 1A2> '54' = 6 B2>2 ; A 4%" ' i 4%56 '% A@'
$ $ (
b' N ' /W' 82 < ' 34' i' ' #4@' W ' 0
0%7♯ F ' ' 5A 9' 5625' ♯ A43? 25' 56 ' 7 3 '
♯ NM / ' 345' %2>' 4%)' 23@ 8 9' 2A : 25 43' 62A♯ 345' i'
5&%♯ 0 ' W' 5625' i' 345' %4>' 2' 823)' 34>' 72 5 56' %4>'
`` 4♯ F ' ' 564 ?6' 5' i' 72 5' %4>' 5)' 5' 7 AA 345' i
`*80 F / ' FF ' %' / 7 A♯ 5625' 6 ' '148)' F
! 4 ' U+ ' A ' 5625' 62A♯ 148)' 7 A♯ 148)' 23@ 345' '
!
M*, ' >+/J ' 9 ' 62A♯ 345' 8 3 6' %>4 8 ' 94 >' @2 A9' '
)'
+ *4 M ' M' ' 56 > ' 239' i' 3' 56 ' 76 5 ' 4%' 23' ?? ' C
(♯ / / J ' / ' 647' 7 5' 2 > ' 569' 74>@ ' A4' 8 9' &♯ Z'
%' N / / ' 56 > %4> ' 6 ' i' > 8 2 3 @' 3' 6 8'
)' >
(♯ N ' L ' ♯ 23@' 5625' 56 ' "4>@' ?44@
5 ' /M' FL ' 56 > ' ; ' 4 8 ' 523@ 3?' 6 > ' 76 16' 62A♯
345' i' 4%' @ 256)' 5 %8 J ' &58 ' J ' FW '
*3♯ L ' ' < B' 8 9' 29 3?)' 6 ' 62A♯ 3 : >' &♯ @ 256

"

=C M' %' ('M ' 8 ; ' ♯ ; (' ' 9 J' (
2 ' ♯ ' - ' I' (9 ' F (' ' --; ' ; -8 : ♯ (0- ' 8 ' 8
' & ♯ ' > ' ' ' I' ; ' M ♯ (; ' M 8 I = M ; - ('
$ 8 ' J ' ' 3 8) ' ' ' M ' F
M*, ♯ ' ' (; ' - ' F ' I ' (' I ' 8 (' ' Q '
&& + 1 ' (; ' (' I ' (I ' F ' - ' 0 ? .
3 Z' ' 8 (' (' J ' F ' X ' ; ' ' ' (' 8 8 - ' ; ' F ' -8 ; ' .
5 ' %' ' 8 ' (' ' / ' (' 8 (I '
(♯ ' ' ' ' F ' I ' (' ' 8 - ' 8 ' ' ' (I '
%1 ' 8 ' F ' 8 ' ' M ' ; (I 8 ' (' ' ' (
% 1 ' (F ' ^ ' (' ; 8 (' '
' 1 ' ' ' ' M ' ' ' (' I ' X ' ;
%*'+♯ % ' F ' ' U ' 8 ' ' (' ' ' ' 0 (8 ' ' '
♯ ' (f ' ' W ' 8 ' 8 - (I 8 ' 5 &. ♯ ' '
1 ' ' M - ' -8=0 8 ' ' ' ' ' ' ' ' =
%♯ ' M ' (' M ' ' 0 ' ' 8 (' ' F ' ' ' ' ' ;
5 + ' %' 8 (' F ' 8 ' 8 9 '' 8 (' ; (' ;
5 ' %' ' F ' ' ' ' ' ' ' '



7 $8 ' N' 2A# #F 25 56 ' ?>21 4 ' 74>@ '
. ' / ' N/ ' ; 64A@)' 9 ' @ B >)' 7 ' 23@ B > 6'
'# /W' L' 56 9' 5625 @ 7 A# 43 56 ' 2>56' 62A# 7
' $ ' ")
F ' / F ' 569' A4 : ' 54' 8 ' 72 ' U4' B2 37?A4 : ' 4%
*4 N)' ' 62 : ' / 55 > @' 56 3? '544' 6# %4>' 8 '
%A i ' / J ' M' 16' A9447A @? ' ' 544' 6# %4>' 8 '
J ' M ' 6 ' 328 ' 62A# ; ' 12 A1@ ' #' 4 3 A4>
FL FJ)%>4 8 ' 56 ' "4>@' 4%' 64 5 ' 7 6 16' ' 6# 3' 14 3 A
$ ' " " (
&# / J ' / N / 7 A# B>2 '56)' %4>' ' 2 8 ' 6# 8 2 @ '
$
/ 3%*0S @ ' J ' 3?. 2 8)' 52A<' 9 ' 4%' 2A# 56 ' 5>'
74><)' W (# FM ' W ' E / 0 ' F '
$ " ' (
$,)# / ' / J ' 56 ' 23? A @' @# 6# 23426' A44< @' 43'
* (F ' FM ' 56 ' " 4>@' 6256' @ 2A5 *# 7 56' 94 ' '

$8 J I ' J ' ; ' 7 35 2 ' 6 ' 72 ' 6# 54' 56 ' 8 4 35'
, ' / M / ' 7 35 7 6 > ' B>29 >' 72 ' 6 ' 54' ; ' 8 2 @ '

%*' # FM ' F ' 7 6 > ' 34' 6# '56 > '56 ' % > ' ?4 56 4 5'
M ' /W' %4>' >43' ' 7 A# ; > 3?' A: >)' %4>' 6# ;>2
/ *%' ' /F' %' 239' ; A@' 43' 56 ' %4 3@25 43)' *# 629
F' <&& # F ' F ' : A ' 2A 4' 4%' @.# 23@' 2>56
"
3 / NW /' % ' 56 ' " 4>@' ? : 56' 347' A < ' @
' / / L ' 564 ?6' 94 >' 3 'A < ' 1> 8 43' 62A# ; ' 2 ' 6#
0 / ' L ' 74 > 8' 62A# 25' 56 8' A < ' @ # ; 5 8 9'
> ?65 4 3
23 ' W ' J ' 56 ' 62 >' 4%' 6 ' 6 2@ A < ' 6# ' ' / /N '
$
M*, # F ' / ' # 4@' B2< ' 2A# 56 ' 5 : ' $&# 0 ' FF '
$ ' L ' ' ; 5 ; 9' : 9 *' 5625' B>41 @ 56' 4 5' 4%'
56 ' 8 4 56' 4%' "4>@' @456' 8 23' A :)' 5 ' NZN
/W' / J ' < B' 2A# 56 ' 5 :
' /N ' 56 ' 5 : ' '3 ?6' 56)' * # / '
/ ' J ' FW ' 5625' / 8 29' 6 7' 56 ' 56 ' 5 : ' 4%' # 4@
/' 3%*0# ' /0 ' 8 @% ,' 4%' 56 ' 5 : ' 7 6 16' 6 ' 14 8 '
P 8 23@ @' 54' 2' 564 23@ ? 3 >25 43)' W (' / 0 ' L)
*4' /F / / ' @456' 345' 56 ' 2>5>9' 5 : ' ^ N '
0 ' /M ' 6 ' 8 A5 BA 56' 5 : ' 7 564 5' <347A @? '
(# / J ' /N ' A 5' 56 ' 5 : ' 4%' 8 9' 8 4 56' ; ' 211 B52 ; A '
ML)' / /)' 6 ' " 4>@' ?2 : '56 ' 5 : ' 14 8 B2 39' 4%' 564 '5625'
B ; A 6 @' 5
%*' # / J ' 3' 8 A5 5 @ ' 4%' *# 56 > ' 72 5 5 63 45 3
/ 0 ' F ' 2' 5 :)' B4< 3' 3' @ ' 2 43)' 647' ?44@' ' 5' / / N ' F ' 8 23' ?4 56' %4>56' 54' 6 ' 54' 23@ A2 ; 4 >'
FM ' 56 ' ,' 4%' 56 ' B > ' 2> ' BA 2 235' 5 :
L ' 0 ' : >9' 5 : ' 4%' # 4@' 'B)' 6 ' ' 2' 6 A@'
1 i ' 0 ' F ' ; ' 345' >2 6)' 56 > %4> ' A 5' 569' 5 : ' ; ' % 7
/ F / ' 56 ' B> 216 >' 4 ?65' 54' % 3@' ; 5' 211 B52 ; A '
54' 5625' 72 ' 7 > 55 3)' : 3' 5 : ' 4%' 5> 56'
NN ' FM ' 5625' 143% > 8 56' 56 ' 6 ' 4%' 6 ' >: 235'
0 / ' / M / 62 : ' B 5' 8 9' *# 3' 569' 8 4 56)' 23@ 29' 54'
V 43)' 564 ' 2>5' 8 9' B 4BA)' %# &+' Z'
5 &# J # RW ' 9 ' 62 : ' 7 2> @' 56 ' ACE>@' 7- 56' 94 >' *'
5 # J ' F ' 764 4' B 2< 56' 2' 5 : ' 2?2 3 5' 56 ' 4 ' 4%'
8 23' 5' 62A# ; ' %4>? : 3' 6 8)' $8 ' / F ' A
W ' %4>' ; 9' 569' 2 : ' 564 ' 62A5 ; '+ 5 % @)' 23@ ; 9' 569'
6# 143@ 8 3 @'
/) ' F / ' %4>' 76 3' 5> ; A25 43' 4>' B > 1 5 43' 2> 56'
; 12 ' 4%' 56 ' 5 : ' 6 ' ' 4%% @ @)' 5 %8 ' N ' / W
FF ' NM ' 34' 8 23' 72 ' 2 ; A ' 54' 23 7 >' 6 8' 2' 5 :
FN ' 0 ' ; 5 35' 9' 6# ' 3 ((345' B2 ' 2 7 29'
5 %8 ' W ' /) ' 8 2 < 3? 56 ' 5 : ' 4%' # 4@' 4%' 343 ' %% 15
L ' L ' 764 4 : >' 62A# ; ' 2 62 8 @' 4%' 8 ' 23@ 8 %AW ' N '
M*# 4%' 6 8 ' 3' 4% 23' ; ' 2 62 8 @)' 7$ = ' Z# FM '
" AA F L ' ; A @' 2> ' 56 9' 5625' 6 2>' 56 ' @*# 4%' # 4@
FN ' / J ' *)' 2' B>4B6 5 8 ?65 9' 3' @ @' 23@' 5 : '
*30' / ' /)' 3' 56 ' ; ? 33 3?' C 2' 56 ' # 23@ 56 ' #
72 ' 7 56' # 4@)' 2 : # 56 ' # 72 ' # 4@
/N ' 56 ' # 72 ' 8 2 @ ' %A 6)' 2 = @ @ 7 A5' 2 8 43?'
0 = NW ' 647' 62A# 9 ' ; A : ' 8 9' 5 : =
M M ' 56 ' 5 : ' ' B 2< 54' 94 ' 56 9' 2 f A %
L ' / ' 9 ' 1435 3 ' 3' 8 9' 5 : ' 9 ' 2> 8 9' @ 1 BA ' '
3@= @
NW ' 6 ' 5625' ' 4%' # 4@)' 6 2> 56' # 4@- ' 5 :
/ F NL ' 5 : ' / 62 : ' B4< 3' 62A#+ @?' ' 6 8' 3' A2 5 @29'
/ 0 '2> ' 1A 23' 56 >4 ?65 6 5 : ' 62 : ' B4< 35494
/W' M ' 56 3 ' 56 9' 7 > ' 23@ < B5' 569' @'# /W
E . ' Z ' F ' 4 8 ?65 A9' ?> 7' 56 ' *' 4%' # 4@' 23@
B> : 2 A @
* # / ' /W' %2 56' ; 9' 6 2> 3?) ' 6 2> 3?' ; 9' 7 ' 4%' # 4@
/' *%' N' ; < 3? @ 4 8 ' 4%' # 4@' & ' 345' 3' 5 :)' ; 5' 3' B4 7 >

W *%' /N ' M ' 12 8 ' 56 ' 6# 4%' # 4@' 4 5' %>4 8 ' 94 ' ^
F' *%' N ' F ' 345' 623@A 3?' 56 ' 5 : ' 4%' # 4@' @ 1 5% AA9'
(' 0 ' /N ' 2A# 56 ' 27' ' % A% AA @' 3' 43 ' @*+
D# M ' A 5' 6 8 ' 5625' ' 52 ?65' 3' 56 ' *# 14 8 8 3 125
-3# >= FM ' 1A 23 ' : 56' 72 6 3?' 4%' 725 >' ; 9' 56 ' 5 :
M / W ' 56 ' 74>@' 4%' 56 ' B > 5)' 76 16' 56 ' 5 : ' 4%' # 4@
* # : /M ' * M ' 56 ' @*# 4%' 6> 5' @ 7 A# 3' 94 ' > 16A9'
/ 3 # / ' 0 ' 2 >' ?Z B A 12 8 ' 345' 54' 94 ' 3' @# 43A9
F ' / ' 9 ' > 1 1@' +5' 345' 2 ' 56 ' 6# 4%' 8 3)' ; 5' 2 ' 5
' 3' 5> 56' 56 ' @*# 4%' # 4@' 74><' 56' %D
% 15 2A9' 3' 943
N ' /L ' 14 8 %4>5 43 ' 23456 >' 7 56' 56 ' @*+
/ < ' N ' M ' 34 > 6 @ B' 3' 56 ' 5 :)' 4%' %2 56' 23@
) @415> 3
>' &' W ' 56 9' 764 A2 ; 4 >' 3' 56 ' 5 : ' 23@ @415> 3
F' & ' F ' J ' ; 5' 56 ' *# 4%' # 4@' ' 345 ; 4 3@)' /N
N ' F ' B> 216' 6# ; ' 3 5235' 3' 2 43)' 4 5' 4%' 2 43'
! 4 ' / ' 9B64A@ ?' 2A# 56 3? ' ; 9' 56 ' @.# 4%' 6 ' B4 7 >
F ' F ' %' 56 ' 6# B4< 3' ; 9' 23? A ' 7 2 ' 5 @%2 5'
N ' F ' ; 5' 56 ' A4 ' B> 216 @ @ @' 345' B>4% 5 56 8'
/ +>< 23@ 62 : ' 52 5 @' 56 ' ?44@' 7 ' 4%' # 4@
/ /)' ' 56 ' 7 4>A@ ' 7 > '%>2 8 @' ; 9' 56 ' 6# 4%' # 4@
' / FF ' ; ' 9 ' @4 > ' 4%' 56 ' >: ' 23@ 345' 6 2> > ' 43A9
' F ' %' 239' 8 23' 4%% 3@ 345' 3' 6# ' 2' B >% 15' 823'
5' # / ' F ' ; 3?' ; 4> 3' 2?2 3' ; 9' 56 ' 5 : ' 4%' # 4@
F ' F ' 2 ' ; 2 ' @ > ' 56 ' 31 > ' 8 A<' 4%' 56 ' 5 : '
F # / J ' 7 ' 62 : ' 2' 84> ' > ' 5 : ' 4%' B>4B6 19
' F)' ; ' 8 3@% A 4%' 56 ' 5 : ' B4< 3' ; 9' B>4B6 5 '
/ *30' / ' / ' 4 >' 623@ ' 62 : ' 623@A @' 56 ' 6# 4%' A %
F)' 0 ' 764 4' < B 56' 6 ' 5 : ' 3' 6 8' ' 56 ' A4 :
' / L ' A 5' ' 345' A4 : ' 3' 5 : ' 5 3' @ @' 23@ 5> 56'
0 W ' 56 ' ' 256 >)' 56 ' ' 23@ 4A9' # 64 5' 2> ' 43
$!)'
0 ' F ' ' # 4@' > 5 @' %>4 8 ' 6 ' 5 : '
M*, # F J ' C' @29 ' @4' 2A# 569' U : ' # $ # 0)' / '
2% ' N ' FL)' 56 ' 5 : ' 4%' 8 3- ' ; 23@
0 ' /N ' 56 ' 2 ; ; 256' 4%' 56 ' " 4>@' 569' # 4@)' 3' 5' 564
62A5' 345' @4 2 39' 5 : ' * >)' / W)' FF
*4 N ' / / ' %4>' 56 ' 5 : ' 4%' 2' 823' 62A# ; ' > 3@ >' 54'
6 8)' 23@' 12 ' 54' % 3@' 2114>@ 8 ?' 54'
' 6 ' 729)' /' # ' /W
(# L ' ' 76 3' ' 143 @ >' 56 ' 5 : ' 4%' 569' % 3? >
/N / ' 14>% B5)' 56 = 9' 62 : ' @43 ' 2 ; 4 8 32 ; A ' 5 :
/ J ' / ' 56 ' % > 828 35' 6 7 56' 6 ' ; 23@ 9' 5 :
MF / F ' 54' 56 ' 8 >19)' %4>' 564 ' > 3@ > 5' 54' : >9
823' 2114>@ 3?' 54' 6 ' 5 : ' %* ' # FN ' FJ '
%*' # FN / F ' 62A# G45' 6 ' > 3@ >' 54' : >9' 8 3' 21D
14>@ 3?' 54' 6 ' 7 ']' 5 # AM F W ' F # ' N / N '
..(# L)' /N ' 54' 764 8' 5' 62BB 3 56' 2114>@ 3?' 54' *+
4%' 56 ' 7 1< @)' 2114>@ 3?' 54' 56 ' 6# 4%'
56 ' > ?65 4
/F ' /N ' # 4@' 62A# ; > 3?' : >9' *# 354' + @? 8 35'
' F ' L ' 56 9' 74> 6 B' 56 ' 7 ' 4%' 56 >' 47%2 623@
F / W ' 56 ' Z>: ' 4%' > ?65 4 3 ' 62A# ; ' B 25
5 &# F ' 0 ' 2A# 56 >' 6# 56 9' @4' 54' ; ' 3' 4%' 8 3'
2>A ' M ' 0 ' 6 ' 14 A@' 56 > ' @4' 3B' 8 ?659' 7
*30 N N ' 8 9' 8 25' ' 5@% 3 6 ' 6 ' 6+
> F ' 6 ' 7 A# 6 7' 6 8' ?> 25 >' ZJL ' 5623' 56
M ' 56 ' 7 ' 76 16' 56 ' ' 256 >' 6256' ? : 3' 8)' 56 '
28 ' 5 : ' 5625' ' @4' ; 2>' 7 53 ' 4%' 8 '
M FL ' 5625' 7 ' 8 ?65' 74><' 56 ' 7K' 4%' # 4@
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/N ' / /)' ; A : ' %4>' 56 ' 7 ' 2<
/ 0 ' FN ' %' ' 62@ 345' @43 ' 28 43?' 6 8' 56 ' O6
54' @4
. ' >+ L ' %' 56 7 ' ; ' 4%' 8 3)' 5' 7 A# 14 8 ' 54' 34 ?65'
* # ' FW ' ; 9' 7 625' A27' ^ 4%' 7 ' ^ 329' ; 5 4%' 2 56
N ' F ' %4>' %' ;>262 8' 7 > '+ 5 % @' ; 9' 7
/ / ' M ' %' ; 9' ?>21)' 56 3' ' 5 34' 84>' 4%' ; 5' %' 5
' ; ' 4%' 7 ' ' 5 34' 84>' 4%' ?>21
/ / F ' A 5' ' 56 >%4>' 12 5 4%%' 56 ' 6# 4%' @2><3 '
/N)' F ' %4>' 8 25)' @ 5>49' 345' 56 ' 7 ' 4%' # 4@
*# F ' / ' : >9' 823-' :)' 62A# ; ' 82@ ' 823 % 5'
4%' 56 ' A27)' %4>' ; 9' 56 ' 5 : ' 4%' A27' 34%' A5 ; '+ 5 % @'
H# F ' > 1 : @' 9 ' 56 ' B > 5 4%' 56 ' 7 ' 4%' 56 ' A27' ^
0 ' / J ' 53 ' 8 ' 4%' 56 ' %A 6' 2> ' 823 % 5)' 2@ A5 >9
M ' N ' A 5' : >9' 823' B>Z : ' 6 ' 473
=-3# F ' U# 345' 4%' 7 ' A 5' 239' 823' 64 A@' ; 42 5
' 3 ' / ' ' > 8 8 ; > 3?' 94 >' 7 ' 4%' %2 56)' A2 ; 4 >
)' ; Y A4 :
F 3 -' F = W+ 52 ; A 6' 94 ' 3' : >9' ?44@' 7 4 >@' 23@' 7 '
@

F &0 ' / J ' 2 : @' ' 345' 2114>@ 3?' 54' 43>' & # 0 '
& # / / M)' ; 5' 3' (*# 56 9' @ 39' 6 8)' 2 ; 4 8 32 ; A '
! 4# N ' N ' @ @' > 5' 56 ' : 356' @29' %>4 8 ' 2A# 6 ' 7
A : 3?' # 4@
/ ' N ' A 5' B25 31 ' 62 : ' 6 >' B >% 15' S*+
F0 ' ; 5' 2' @4 >' 4%' 56 ' 7 ' 62A# ; ' ; A @'
F' /N)' %' 6 ' 62 : ' 345' 7 ' 123' %2 56' 2 : ' 6 8 ' ^ /W)
+ $
FN ' 9 ' '56 3' 5625' ; 9' 7 ' 2' 823' '+ 5 % @
' / ' 6 7' 4 5' 4%' 2 ?44@ 143 : > 25 43' 6 ' 8
'# /N / ' 23@' 56 >' 7 ' @4' %4A4 7' 56 8'
/L ' M ' @4 ; A ' 54' 6 >' @4 ; A ' 2114 @ 3?' 52' 6 >' 6#
$!)' >
M*, # N F / ' C' @29 ' 564 ' 62A5
+ # F J ' %>4 8 ' 56 ' " 4>@)' 76 16' ' C1 AA 35' 3' ?6 #
N / N ' 764' 6256' 6# 23@' @43 ' 5' = / 56 ' " 4>@)' ' 2 8'
(4# >' ' 7 A# 7 ' 2' 74><' 3' 94 >' @29 ' 7 6 16' 9 '
7 A# 345' ; A :)' 564 ?6' 5' ; ' 54A@' 94)'
. " (H+Y (
$8 ' / /N:' C' @29 ' 3' 76 16' 8 3' 4 ?65' 54' 7)' P
*30' >+ /W' 8 9' ' 256 >' 7 ' 6 56 >54)' 23@' ' 7
0 N ' ' 8 5' 7 ' 56 ' 74><' 4%' 6 8' 5625' 35' 8 ' 76 A '
5' @29 ' 56 ' 3 ?65' 148 56' 76 3' 34' 823' 123' Z :
* # N N ' 54' 6 8' 5625' 7 ' 56 ' > 72>@' 345' 4%' ?>21
/0) / L ' 56 3? ' 76 16' 6> 5' 625' 6' 345' &' # ; 9' 8
/ *%# N ' /F ' 23@ A2 ; 4 >' *# 7 56' 4 >' 73' 623@
/F ' M ' 5' ' 56 ' 28 ' # 4@' 76 16' 6# 2A# 3' 2A
F *%# 0 0 ' 6 ' 5625' 7 ' '%4>' 56 ' 28 ' 56 3?)' ' # 4@
(# 0 ' M ' ; 5%2 56' 76 16' 7 ' ; 9' A4 : '
7 3# ' F) 2114>@ 3?' 54' 56 ' B4 7 >' 5625' *# 3' '
3&(# F ' F)' 7 ' 4 5' 94 >' 473' 2A : 25 43' 7 56' % 2>)' /
F /)' 2114>@ 3?' 54' 56 ' 6# 7 6 > ; 9' ; ' ' 2 ; A
/ 3 # N) / / ' 5 @9' 54' 6# 7 56' 94 >' 473' ; 23@
F 3 # / ' %' 239' 74 A@' 345' 6 ' 3 56 >' 64 A@' 6
' 25)' / /
$! $
F *%# D# / ' 7 ' 56 3' 2 ' 7 ' 54? 56 >' 7 56' 6 8'
3& ')F)' ; 7 2> ' %1A4?)' ; 7 2> ' 4%' : A' 7 '
$!
! * # L' M ' 56 ' 7 ' 8 2@ ' 5)' 56 > %4> ' 5' ' 345' # 4@
/ / ' 56 ' # ' 7 4>569' 4%' 6 ' 8 25'
F < ' 0# F / 0 ' 2' 7 ' 5625' 3 @ 5<345' 54' ; ' 2 628 @'
$!
-8# F / '%4>' 7 ' 2> ' 6 ' 1> 25 @' 3' 6> 5' * '
' $ "
/ # F L . ' 6 ' 6256' 15 56 ' 7 ' B43' 56 8'
W (# Z+L ' ; ' 62A# + @? ' 56 ' 7 ' 3' >A? 4 3)' 8 D
3 5 >+ @? 8 35' 54' 5A ' B 4BA)' JM / ' ' JL J
/ J N ' 56 >' 74>@ ' 54' 3@' 4%' 56 ' 7)' * # ' & / L
FF ' FW ' 2A# 56 ' 3@ ' 4%' 56 ' ' 62 ' > 8 8 ; >
FN / ' 56 ' 2>56' '56 ' " 4>@-) ' 56 ' ' 23@' 56 9' 5625'
@ 7 A# 56 > 3)' JL)' W ' 3# /)0)
7 A# 56 ' 23@ 6 ' ?A4>9' 4%' 56 8)' $8 ' N 0
0 / N ' 9 ' 2> ' 56 ' A ? 65' 4%' 56 ' ' 2' 1 59' 3' 2' 6 AA
/ F F ' 5' 62A# 345' ; ' %4>? : 3' 6 8' 3' 56 ' 7
/M' FM ' 7 625' B>4% 5 @)' %' 6 ' 62A# ?2 3' 56 ' 7 64A ' 7 '
23@ A4 ' 6 ' 473' 4 A ^ 5X%8 L M ' $8 ' J' F0
FN / N ' 56 ' ?4 B A 4%' 56 '< 3? @4 8' 62A# ; ' B> 216 @'
3' 2A# 56 ' :)' %4>2' 7 53 ' 54' 2A4)' >i > ' / N J
$8 ' / M ' L ' %4>' 56 ' 16 A@> 3' 4%' 56 ' ' 2> ' 7 >'
*30' / ' / ' 6 ' 72 ' 3' 56 ' ' 56 ' 7 72 ' 8 2 @ ' ; 9'
6 8)' 23@' 56 ' ' <3 7' 6 8' 345)' . ' / W FN
FJ' 56 ' " 28 ; ' 4%# 4@' 76 16' 52< 56' 2729' 56 ' 3' 4%' +
/M ' #4@' 4' A4 : @' 56 ' ' 5625 ; ' ?2 : ' 6 ' 43'
N NF ' 6> 5)' 56 ' 2 : 4 >' 4%' 56 ' ' / *30 N ' / N
L / F ' * ' 29 3?)' ' 28' 56 ' A ?65' 4%' 56 ' 7 ' Z+ >+
/F ' NW ' 128 ' 345' 54+ @? ' 56=# ' ; 554' 2 : ' 56 ' '
/N / W ' 56 ' B > 5)' 764 8' 5 ' 6# 123345 > 1 : ' '
FW)' 8 9' B 21 ' ' ? : ')' 345' 2 ' 56 ' 27) ? : 56) ? : ' '
/0 / J ' %' 9 ' 7 > ' 4%' 56 ' 7 ' 56 ' 5 ' 7 4 A@' A4 : 6 473)
; 5 ; 12 ' 9 ' 2> ' 345' 4%' 56 ' ; 5 ' 62 : '
164 3' 94 ' 4 5' 4%' 56 ' 7 56 > %4>' 56 59
/M ' ; ' 4%' 244@' 16 >)' ' 62 : ' 4 : >14 8 ' 56 ' E
/L ' M ' * ' 23 7 > @ 8 9' < 3? @4 8 ' 345' 4%' 56 ' 6+
%' 8 9' < 3? @4 8 ' 7 > ' 4%' 56 ' 6#
* # / J ' 5625' 2 # 56 ' ' O 829' ; 148 ' ? A59' ; %4>2'
#4@
AF ' F ' ; ' 345' 143%4> 8 @' 54' 56 ' 6# ; 5' 5>23 %4> 8 @'
4> "F ' 7 6 > ' 56 ' @ B 5 >' 4%' 56 ' 6+N 6256' 345'
#4@' 82@ ' %44A 6' 56 ' 7 @ 48' 4%' 56 ' ' ^
d / J ' 56 ' 7 @ 48' 4%' 56 ' 7 ' ')%44 63 Q ' 7 56' # 4@

/ *%S N J '%4>'7 '2> ' 8 2@ '2' B 1521A '54' 7)'54'23? A K
0 / f %4>'56 3' 8 5'9 ' 3 @ '?4'435'4%56 ' 7'
8 / 'N ' 6 ' 8 ?65'@ A : >' '%>48'56 'B> 35' : A'0 P
M /N ' ?A4>9' 3'5 ' 1>4 '4%'4 >' "4>@' *)' ; 9' 7648'
*,A ' 6# ' 1> 1 % @'54' 8)' 23@ ' 54'56 ' 6+
/ F / ' 345'43A9' 3'56 ' i.' ; 5' 3'56255'54' 148 '
F' /F' 62: 37' 34' 64B)' 7 564 5 #4@ G56 ' 2#
/ `7'# / /0' 6> 5'* '128 ' 3>459'54' 2: ' 33 >
M' W' %4>' 7 ' ;>4 ?65' 3456 37' 354' 56 ' *+
F' & '*' J' 3' 6> 5 ; %4> '56 '5 ' ; ?23)' & # / 'F'
! 4H # F' ; 9' 6 ' 43)' ; 9' 7648' 2A 4' ; ' 82@ '56 '54'
S / FW' 54' < B' 6 8 A% 3 B455 @ %>48' 56 ' M0
N' N' 56 '%> 3@ 6 B' 4%'56 ' 6# ' 3 8 59' 7 56' #4@)' 2'
%> 3@' 4%'56 ' &S '56 ' 3 8 9' 4%' #4@
/ *30' F' F' 6 ' '56 'B>4B 5 25 43' %4>'56 ' B ' 4%55
/0)' A4 : '3456 156 3? '5625'2> ' 3' 56 ' 6+
0 N ' 7625 4 : >' ';4>3' 4%' #4@' 4 : >148 56'56 '5B'0'
$ " " (
& S F ' /F)' @ 39 3?' 3?4@A 3 ' 23@ 6# A 5 '
4# J /)'56 '% > 5'14 : 3235' 62@ 2' 6S 2315 2>9'
$ '
/ *4' /W /N ' ' 2 @ 54'56 ' 6# 564 ' 2>5' 8 9' 8 456 >
/J' FM' 564 ?6' 6# @ 5>49' 56 ' ;4@9)' 9 5' 62A# '
#4@
(# JF' M' ; 5' ' 2 8' 2' 0*' 23@ 34' 823)' 2' > B>4216'
,# MM FN' %4>' 56 >' &*# 62A# 345 @)' 34>' 56 >' % >
[; 'G 316 @)' 5 %8' J' NN)' NM)' NL'
*0 3 N' W' #4@' B> B2> @ 2 +' 5' 845 '56 '?4 >@'
$
>42' 0 N' 6 >' 3@' ; 55 >' 2 ' *# 62>B' 2 ' 2' 74>@'
YY * ' >=# W' 9 ' 764'5 >3'+ @? 8 35'54' @*S
' / / '56 ' 328 '4%'56 ' 52>' '12AA @' 6# 23@' 56 '
56 >@' B2>5' 4%'56 ' 725 > ' ; 128 '54'
$
5 S' 5F NO' 56 ' A2 5' 525 ' 4%56258 23' 5 6 2 3 '56 '
% > 5) / /)' FM'
FW MN' 56 ' A2 5' >>4>' 62A# ; ' 6# 5623' 56 '% > 5'
*30 0 /N ' 3'34' 84>)' A 5'2' 9)'56 37' 148 ' 354'56 '
/ *%S / / ' AW' 9 '148 ' 345' %4>' 56 ' ; 55 >)' ; 5' \%4>'
56 ' +
/ O' 0' L' @ 3 @' 56 '%2 56)' ' 6# 5623' 23' 3% @ A
F' W # F ' F ' 56 ' A255 >' 3@' 7 ' 7 56'56 8
'
$
0S FN' FM' 56 ' 823' ; 47 @' 23@ 6# 56 ' "1>@)' NL'
5M*, S N')' >2 # ; 47 @' 23@ 7
N /N ' %4>' 564 ' 62A5 U9' 34' 456 >' ?4@)' "4>@'+ 3A43
/ ,U<435' / M FJ' 6# 56 ' A 4>@' 3' 56 '; 2 59' 4%' 64A 3)
' FJ' F N /) ' " 7 N) L
B+- 5i' J0' M' '148 ' A 5' ' A9' 23@ ; 47@47 8)' <3 #
JJ' 0' 7' 25' 6 '%445 544A)' %4>' 6 ' '64A9)' / 5' W')A
MM' F ' 62A# 2A# %A 6' 148 '54' 6# ; %4> ' 8 '
[-M3# /N ' /M' 54' 6# 56 ' ! 3?' 56 ' "4>@ 4% 64 5)' /W'
5 S' F F ' 7 ' 62: ' 3' 6 ' 52>)' 23@ 148 ' 54' 5>)
6 8)' 5
N' J' %' 564 ' 7 A5' %2A#' @47 3' 23@ *# ' 5 'N [W'
[L ' F ' 1>28 ' 2' A B >' 23@ 7 6 8'
A0 FO' 2' 748 23' 4%' 2322 3' 128 '23@ 6# 6 8'
FL)' /W' 76 3' 56 9' 27' 6 8)' 56 9' 59' 6 8)' $8
FN' 0F
*[4 3N F ' 62A# 59' 56 ' ' 256 >' 3 B > 5)' FN'
7&. ' /W)' F ' 764 8' 9 ' ?34+2354 9' A9' ; 8' @ 1A2> ' '
' /N' 56 9' 12A# 6 > 9)' 4' *# / 56 ' #4@' 4%' C39'
%256 >
! *%O' Y# FO' 5B' 56 ' 1> 25 > ' 84> '5623' 56 ' > 254>'
4i' F ' /L ' A 5' 34' 823' ; ? A ' 94 ' >2 ' 4%' 23? A
F' 8 & # F' N' C2A5 56' 6 8 A% 2 ; 4 : '2A# 5625' ' 6S
" '4# /) M ' A 5' 2A# 56 ' 23?4A ' 4%#4@' 59' 6 8
& *# / J / ' '% A# 25' 6 '% 5' 54'A9
FF)' Z# =9 #4@
$ $
*30' N ' F ' 76 3' 56 '5> '59' 62A# 74> 6 B' 3' B > 5
J' A ' %' 239' 823' ; ' 2 + 4%' #4@)' 6 8' 6 ' 6 2> 56'
$
*, >' / ' F ' 56 ' 6 2>5' 4%'56 ' 7 1< @' ' A 55A ' *S
$ '
b 3S F' 0' 6 ' 62A# > 14 35' ; '5>)' 56 9' 62A# 5 8 ; A '
$ (
0# F / / 2 8' 345' 6# 4%'56 ' A 2 5' 4%'56 ' 8 >1 '
5 # L L ' 56 '11 5 > 43' 2 @)' i=>@)' '2 8' 345' 59' 5625'
564 ' 64 A@ 5'14 31' 3@ >' 8 9>44%)' $8 A(# M
/) ' %4>' 56 ' 74 <8 2 ' ' '4%' 6 ' 8 25'
(&8 ' F ' 0' 62A# ; ' 2114 35 @' 6# 54' 4 ; 52 3' 5625'
74>A@
N / '5625' : ' 74AQ' 7 ' 4%'56 ' : 4125 43

*(# W ' A 5625 9 ' 53 ?65-72A<' 59)' 4%'56 ' "4>@'
/ F / F ' 5625' 9 ' 74 A@' 72A<' *S4%' #4@
*# N ' 56 9' 62A# 72A<' *3' 76 5)' %4>' 56 9' 2> ' 6S
)' >
M*, # F / ' F 0 '%4>' 54' 5> B ' %4>' 5> B '
*4' H # M ' > 9' 7 ' ' 3 ; 8 ; A ' 7 564 5' 5>23 ?> 43'
%*' S FW' M)' %2 56% A' 2> ' 7 ' 4%' %> 3@)' ; 5' < ' 4%'
3 329
' / M ' 56 > ' ' 34' 4 3@3= ' 3' 5)' ; 5' # ;> ' '
0' / / J ' 74 ' ' 8)' 3 9' A9 ' ' ?> :4 '
)' #S
0# F '%4>' 62 : ' A2 3' 2' 8 23' 54' 539' *S
$&# F J / < AA)' ' 82< ' 2A :)' ' *# 23@' 6 2A'
/ *4' >S / L ' 6 ' ' 23@ 6 ' 623@ ' 8 2< ' 764A '
iUi' M ' F /)' #4@' 62A# *# 56 ' 6 2@ 4%' 6 ' 3 8 '
%*' ' # ' ; 52' *# B > 5' 764' 123' ; 2>^
>H# ' ; 5' 6 ' 72 ' *# %4>' 4 >' 5>23 ?> 43 '
' *%S L)' / F ' 76 3' 9 '54' 56 >' 7 2<' 143 1 31 '
$
/ b&0) ' / J / ' A +26' 59# 6 '%21 ' 3' 6 ' 8 235A '
/ *4' N)' /W' 56 ' 3 : : ' 4%' 6 ' 543 '2> ' *# 54? 56 >'
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@ 8# F / ' 56 ' 74>@' '54' B' %4>' A2 ?65 >'
5 &%# W '+ @? '2 < 56' %4>2' > 72>@.' 456 9' 54' 5' B'
25 ' FW' 0J ' *4 B6' 54' 5' 3' 2' 1A 23' A 3 3' 1A456)'
: 5 8 / 0 ' NM' $8 ' JH# >H S
*30' F 'W' %2B< 3' *# 54? 56 >' 3' 2' BA21 ' ; 9' 5 A#'
$
$ # NM' %4>' 56 > ' ' 6# ?43 ' 4 5'%>4 8' 56 ' A4>@'
' F ' 56 3' 62A# 6 ' B 2< ' 54' 56 8' ' 6 ' *+
WM' / ' > A9' 56 ' 54' 4%' 823' 6 ' B>2 ' 56 ')' 56 '
> 8 2 3@ >' 4%'54' 62A5 564 ' > 5 2 3'
LJ' NM' 647' A43?' 62A# 569' 7 ' ; >3' A < '%> ^
J / / ' : 3' 2114>@ 3?' 54' 569' % 2>)' 4' 569' *S
/ M F ' 62@ 345' 4 ' 544@' 54' 5 >3' 2729' 6 ' *#
/ / 0 ' "4>@' 5> < '56>4 ?6' < 3? ' 3' 56 '@294%6 54' A
%*' # / / ' N ' > 16 ' B>4% 5' 345' 3' 56 '@29' 4%' 54
/ ' "' 2' 4%5 23 7 >' % >3 56' 27 29' 6# ; 5' 74>@ '
4# ^J# U' "4>@)' 3' 54' > 8 8 ; >' 8 >19
5 # H# W' 54 '%A '%>4 8' 56 '54' 54' 148)' $8 ' H# W'
:-* # / '56 '54' 4%' #4@' '> : 2A @' %>4 8' 6 2: 3'
F' ' ; 5' 5> 2 > 5' B 54' 2?2 3 5' 56 '@29' 4%' 54
J' FF' 3@ > @' 56 ': A 4%' 54' % 55 @' 54' @ 5> 15 43 i40'
/ F / J' 2: 3? ' 345 ' ; 5' >256 >' ? : ' BA21 ' 54
/ N' %4>' ; ' '56 ' 8 3 5 >' 4%' #4@' 54' C 1 5 ' 54'
-3# F ' 7 ' 7 > ' ; 9' 325 > ' 56 ' 16 A@> 3' 4%' 6S
N ' FM' A 5' 345' 56 ' 3' ?4' @473' B43' 94 >' 2
0 ' M)' ; 12 4%' 56 '56 3? ' 148 56' 59)' 4%' #4@' 1=
56 ' 16 A@> 3' 4%' @ 4 ; @ 31)' *(# ' M'
)A 3 # 0' J' %4>' #4@' 6256' 345' 2BB4 35 @' 54=
/ <& 0# F' L' A %5 3?' B' 64A9' 623@)' 7 564 5' 6+
S / ' F '59' 4%' 823' 74><' 56' 345' > ?65 4 3 '4%'
" '# M / M ' 23@' 6 @ ' %>4 8' 56 r 7 ' 4%' 56 ' "2 8 ;
/ M' / J' 56 ' 1 B' 4%' 7 3 ' 4%% >113 '4%' 6 ' 7
$ ' "
(# MJ FN ' A 5' 569' @*# 23? >' 52<' 64A@' 4%56 8'
%*' # / 0 / L ' 2' 59' 823' 5 >> 56 B' 5> %'
$! "
*4' / M)L ' 23@' 564 62 5' % AA @' 8 ' 7 56' *+
-8# >+FW' 2' ?A4> 4 '16 >16)' 345' 62: 37' B45' 4>' *'
$
M*, # / '>4' 7 56' 56 '% 3? >' 4%' #4@)' $ ' J /
N / ' \' 7 AA' 6# 43' 56 '52 ; A ')' &O $ S /
(' MJ' FL)' A 5' 56 8' 345' ; ' 6# 7 56' 56 ' > ?65 4 '
>4 .)' ')' : ' 56 8' 43' 56 '52 ; A ' 4%56 3 ' d 2>5)' W'
/ %' FF' ' 2 5 ;' 5A ' "4>@' < 9 '56 ' 823' 1A @A
A' ' ' 7 AA' 59' 5' 3' 56 >' 6 2>5)' " 4' L /
" ' / ' > +4 1 ' : 4 >' 328 ' e> 59' 3' 6 2: 3)'
! 3# / F 0
' 5' 2A# 56 3? ' + 62A 6 ' 2114 8 B A 6 @)' F / FF '
*30 F / ; 5' 56 ' 2> ' 59' 5625' 9 ' 8 ?65 ; A : '
F F 0 ' %' 56 9' 64 A@ ; ' @4# : >943)' 56 ' 74>A@'
14 A@ 5' 143 52 3' 56 ' ; 44< ' 5625' 64 A@ ; ' 7'
/ *%S / / / ' 56 9' 2> ' @*' %4>' 4 >' 2@ 8 43 5 43'
'# / L ' 764 '328 ' 2> ' 345' 59' 3' 56 ' ; 44<' 4%' A %'
$ $ ' =
$,)# 0 / N ' 56 9' 5A+25' 623@ A ' 56 ' B 3' 4%' 56 ' 5:)
(S N0 / ' 8 9' 543?' ' '56 ' B 3' 4%' 2' > 2@9' 6#
$ #)' S
M*, S F ' 23@' 56 ' @*# 72 ' 56 ' 6# 4%' #4@
5 # 0 /)' ? : ' 6 >' 2' 7 ' 4%' @ : 4>1 8 35)' J) W)
*30' > 3 &# %' 9 ' ; A : ' 345' 6 ' >9' 647 ; i : ^
/ J' / J' 56 ' 59' 72 ' * ' 4%' 2U2> 56)' < 3?'
8' J + / N)' ; 455 3?' 4 5 56 ' 623@ 7 5=' 4>@ 8 235

$ #)'
/ 3%*0' / M F / ' 6 ' %% > @' 64' 8 23' 54' @4' 56 8' a ' 6 '
> B>4 : @' < 3? ' %4>56 >' 2<)' (# / 0 / N
/ %# M' W' 769' @4' 9 ' 345' >256 >' 52< ' # ^
*(# F 0 ' 6 ' 5 ; 25@4 56' 7 ' 62A# > 1 : ' %4>' 56 ' 7
$ #) '
F' *%# W F ' > 1 : ')' 7 ' 62: ' 7 ' 34' 823'
`&& ' / L ' %' ; ' 62567 ' 56)' 4>' 47 56' 4 ?65
$ # " " (
&# L / J ' 56 9' 5625' 625 ' 8 ' 6# 2>' 8 A5 BA @'
@ ` # FF FJ ' 56 9' 62: ' 4BB> @ 56 ' 5>23? >'
/ # F / J ' %2' 823' 3@ >' %)' %% > 37 6#
%' ' $
0# N ' 0 ' 2 3' 72 ' : >9' 8 '
/ ' N) 56 ' "4>@' 6 2>@' 94 >' 74>@ ' 23@' 72 7 '
(' LJ ' L ' 564 ' ; 2 5 4 0' # 7 56' 56 3 ' 234 35 @
>=# FF' > + 15 @' 3)' 564 ' 2>5' : >9' 7 ' 272 3 5 '
5 # /L) N ' ; ' A4>@' 72 ' 7 ' 23@' @ A : > @' 6 8'
$ #
(+A # / ' 725 > ' 4%' 2' % AA B' 2> ' 2 ' 54' 56 8'
0 / /W ' 564 ' 62 5' @> 3< 3' 56 '@> ? ' 4%' 5 ; 1 B'
2 3 @ 5 6 8

(
0# / '9 ' 6256' # 4@' 2 @)' 9 ' 62A# 345' 25'
5 # 0 ' W' A 5' 94 >' 148 8 3 125 43' ; ' / ' / # #
>+/F
F' *%' / /W ' 56 >' 64 A@' ; 9 9 '23@ 329)' 329'
' F ' 2A# 56 'B>48 '4%' #4@' 3' 6 8' 2> '9 ' 23@' 28 3'
(' ' '$
0# +/N ' A 5' 56 8' ; '%4>' 2 43)' @29 '23@' 9
F0 L ' ;>262 8' @ @' 23' 4A@' 823)' 23@%# A# 4%' /+
NW' J' % 7' 23@' : A' 62: '56 '9 ' 4%' 89' A % ' ; 3'
M*, ' F ' /W' 56> ' 5 8 ' 3' 56 ' 9 ' 2A# 569' 82A '
62A# 2BB 2>' ; %4> ' 56 ' "4>@' #4@)' N'
F ' # /M /M
'# /M' N ' 54' 82< ' 23' 2543 8 35' 431 '2' 9
J' FF' 3@ > @' 56 ': A 4%' 54' % 55 @' 54' @ 5> 15 43 i40'
(# MO / / ' 564 ' 1>47 3 5' 56 '9 ' 7 56' 569' ?44@3 '
J ' N ' %4>' 2' 564 23@' 9 ' 3' 569' ?65' 2> ' ; 5' 2 ' 9 D
5 >@29' 76 3' 5' ' B2 5)' F' # L
/ ' 56 ' @29 ' 4%' 4 >' 9 ' 2> ' 56> 14> ' 9 ' 23@ 5 3'
. . ' / F / ' 76 A ' : A' @29 ' 148 ' 345' 34>9 ' @>27' 3 ?6'
' L / 0 ' ' 62A# ?4' 4%5A9' 2A#' 8 9' 9 ' 3' ; 55 > 1 '
4%' 4 A
M / F ' 54B>41A2 8 ' 56 '211 B52 ; A ' 9 ' 4%' 56 ' "4>@)' 23@
56 '@29' 4%' : 3? 231 '4%' 4 >' # 4@)' $8 ' N / J'
M ' N' 23@' 56 '9 ' 4%' 8 9' > @ 8 @' ' 148 '
& 8# N ' M' ' 62: ' 2BB4 35 @' 216' @29' %4>' 2' 9
! 4# J)W ' 7 35' 56 ' 6 ?6 B> 5' 431 ' : >9' 9 ' FO
/ ' 0' 56 >' ' 2> 8 8 ; >231 ' 8 2@ '4%' 3 ' : >9' 9'
'# J / 0 ' 76 16' 7 > ' B> B2> @' %4>' 2' 843 56' 23@' 29 '
(" "
%# 0 / L ' A < ' A 43)' 56 9' 62A# 9 ' 2 ' A 43- ' 7 6 AB '
($
0# N) '%4>' 65 ' ; 47 A ' @ @' 9 '43' 6 ' ; >456 >'
' F' ($ (
*4' L ' J ' 7 ' 2> ' ; 5' 4%' 9 ' 23@' <34 7' 3456 37'
(# ZU# N ' 2' 564 23@' 9 2> ' 3' 569' ?65' 2> ' ; 5'
2 9
0 ' / / /)' ; > 3?' %4>56' 56 '6 >; '9 ' @)' 5> '9 '%> 5)' /F'
(# MW' M' 56 3' 62A# 56 ' 2>56' 9 ' 6 >' 31> 54)'
LO' / F'
.(# *# &+' %4>' 9 ' B=21 % 56' ?> 25' 4%% 31 '
(4# ' /W)' 2A564 ?6' 56 ' M1 A@' 62 A' 9 ' 34' 8 25)' +49'
3' # 4@
25' FW' 4' * 3 ' 1> @ 2?2 3)' 9 ' B' 56 ' ?64 5'
* &# M / ' 3 56 >' 9 ' 9 ' 94 >' 8 8 ; > ' 2 ' 3 5> '
8 25' 4%' 3> ?65 4 3 ' 54' 3)' 9'
94 > A: ' 54' # 4@'
(4# /L) / / ' 9 ' 56 B 21 2 ; A ' %> 5' 4%' > ?65 4 3 '
(!
% 2 ' J N ' 564 ' 62 5' ; >4< 3' 56 '9 ' * '4& '4$%, 0' 23@'
56 ' 52%# 4%' 6 ' 64 A@ >)' / ' FW' ' / N FO'
' H FW' 5' ' ?44@' %4>' 2' 323' ; 2> 5 ; '9)' ' 4&'
94 56

5 "' / / ' C39 / ' ' 2 9
(+' >+ / ' ; ' 345 3523?KA @ 7 56' 56 ' /≠ 4 ; 43@2?
/ & ≠ M / ' A 5'2 ' 8 239 >: 235 ' 2 ' 2> ' 3@ > 56 ' /+
(!
F' *≠ M) / N ' ; ' 345 3 G 2AA9 / ' 7 56' 3 ; A > >
(#
(≠ LN)' 72AA47' 2' 3 5' 7 6 > ' 6 ' 8 29'A2 9' 6 > /≠
' N ' / / ' 62A≠? 35A9' A 2@ 564 ' 5625' 2> 7 56'9 '
$8 ' FF ' FM ' 6 ' 5625' ' ?> 25 5)' A 5' 6 8' 6 ' '
56 ' 9
'80 F / ' _L ' 7 6 39 564 ? >@ 5' 569 A≠
/ & ≠ 0 F ' 56 ' 9 ' 2 ' 5 >)' 7 56' 2A≠ B4> 59'
& ' F N ' 56 9' 8 29' 5 216' 9 ' 7 4 8 3' 54' ; ' 4 ; >
/' '>+>' A < 7 ' 9 ' /≠ ; 8 5' 54' 56 ' A@ >'
(
%0≠ L ' F / ' 56 ' 8 2? 325 43' ' : A≠ %>4 8 ' ; ' 9
/' b%0 ' / L / F ' ; 5' / % 2>' 56 ' "4>@' %>4 8' 8 9' 9
*4' / ' FM ' 54' B4 ' 56 ' 3 G 5 ' 4%' 8 9' 9
F / / ' 6 ' ; 43 ' 2> ' % A≠ 4%' 56 ' 3' 4%' 6 ' 9
"' F0 W ' > 8 8 ; >' 345' 56 ' 3 ' 4%' 8 9' 9
/ ' E' 4' 56 25' 5 ; 9' 9 ' ' > 3 7 @' A < ' 56 ' 2?A '
/ / ' ' %>4 8' 8 4>3 3?)' 564 ' 62 5' 56 ' @ 7' 4%' '
56+>

(≠ / FW N ' 2 ' 2>>47)' 4' 2> ' 56 ' 16 A@> 3' 4%' 569' 9
/ NN / F ' 4 >' 43 ' ; ' 2 ' BA235 ' ?>47 3' B' 3' 56 >' 9)'
%*07 ' >+ / L ' 23@ > +4 1 ' 7 56' 56 ' 7 % ' 4%' 569' 9
. . ' / / J ' > +4 1)' ' 94 3?' 823)' 3' 569' 9
/ F / ' > 8 8 ; >' 569' > 254>' 3' 56 ' @29 ' 4%' 569' 9 '
%S ' F0 ' 62: ' 63 @ 7 ' 23@ 4 >' %256 > ' %>4 8'
4 >9
/) / J ' ' @ @' ; 2>' 56 '> B>4216' 4%' 8 9' 9
S ' FW ' 5' ' ?44@' 5625' 6 ' ; 2>' 56 ' 94 < ' 3' 6 '9 ' :
@2i)' / J ' F ' 2A≠ 56 ' 62: ' ' < B ; %>4 8 ' 8 9' 9 ' 7 625'
A21<' / 9 A=' 5 %8 / J ' 0(' / L F /
/ & ≠ N ' / F ' A 5' 34' 823' @ B ' 569' 9 ' ; ' 23' C2 8 BA
(' "
F' & ≠ F FF ' %A ' 2A 4' 9 ' A4 5)' ; 5' %4AA4 7 ' %2 56

S

V "

2A ' MJ ' J)' 56 ' 5' 4%' 56 3 ' 64 ' 6256' 25 3' ' &
B)' 23@ > B>4216 ' 2> ' %2AA 3' 43' 8)'
*30 F / W
/ / J ' / 0J ' 8 9' 2' 6256' 143 8 @ 8)' ; 12 '
3 8
$≠ Z≠ W ' 56 ' aL ' 4%' 56 ' "4>@' 7 A≠ B >%4>8 ' 56
0 J / W ' 23@ ' 72 ' 1A2@' 7 56' ' 2 ' 2 1A4< ' A
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#4@]
F 4>' W / / ' 9 2' 7625' M a
5(' M 431 >4 3? ' B > 1 5 3%1' 56 ' 16 >16'
*(≠ N / ' 5625' 6 ' 6256' 2' ?> 25' ' %4>' 94 '
V "
$ ≠ J>+ H≠ 6 ' 72 ' 2' %4>' 6 ' # 4@)' 23@' 8 2@ ' 2543 D
8 35
FF H≠ 72 ' 2' 5472>@ #4@)' ! (≠ / / N
/ %≠ / N / F ' 2 ' 9 ' 2> ' 2 ' 4%' B > 5 2≠ ? %5 '
&(≠ F / N ' B > %9' 2' B 1 A 2>' B 4BA)' ≠ 4%' ?44@' 74><'
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2% N / L ' 5' ' ?44@' 54' ; ' 2' 2% 45 @ 3' 2')**, '
56 3?)

(≠ / FW N ' 2 ' 2>>47)' 4' 2> ' 56 ' 16 A@> 3' 4%' 569' 9
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. . ' / / J ' > +4 1)' ' 94 3?' 823)' 3' 569' 9
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(' "
F' & ≠ F FF ' %A ' 2A 4' 9 ' A4 5)' ; 5' %4AA4 7 ' %2 56

V "

2A ' MJ ' J)' 56 ' 5' 4%' 56 3 ' 64 ' 6256' 25 3' ' &
B)' 23@ > B>4216 ' 2> ' %2AA 3' 43' 8)'
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3 8
$≠ Z≠ W ' 56 ' aL ' 4%' 56 ' "4>@' 7 A≠ B >%4>8 ' 56
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V "
$ ≠ J>+ H≠ 6 ' 72 ' 2' %4>' 6 ' # 4@)' 23@' 8 2@ ' 2543 D
8 35
FF H≠ 72 ' 2' 5472>@ #4@)' ! (≠ / / N
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&(≠ F / N ' B > %9' 2' B 1 A 2>' B 4BA)' ≠ 4%' ?44@' 74><'
*≠ H+ Z≠ ; ' 2' 56 > %4> ' 23@' > B 35'
V " " (
2% N / L ' 5' ' ?44@' 54' ; ' 2' 2% 45 @ 3' 2')**, '
56 3?)

?P)"K*2ʻ P% & * ʻ "#ʻ)#)*

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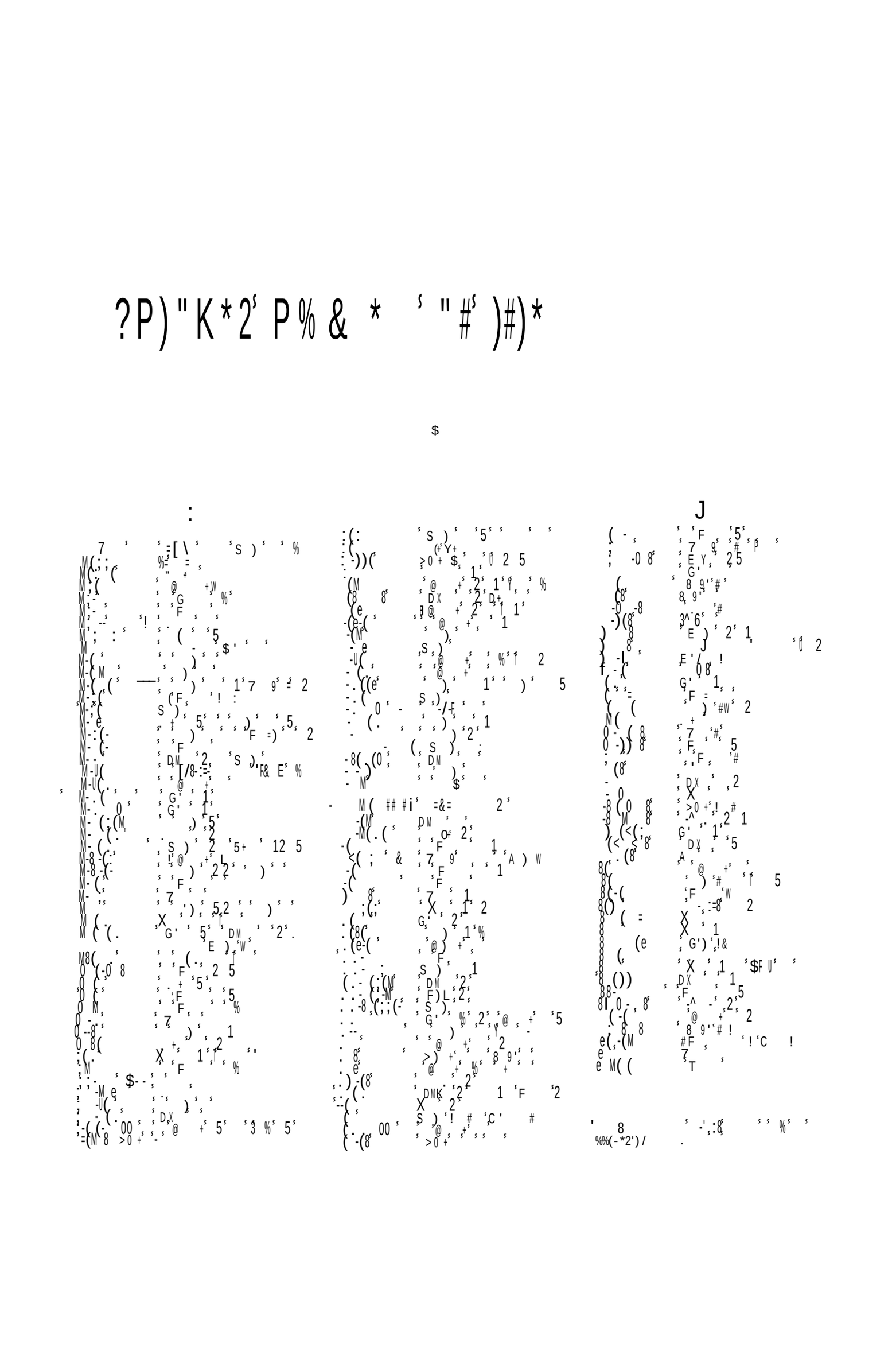

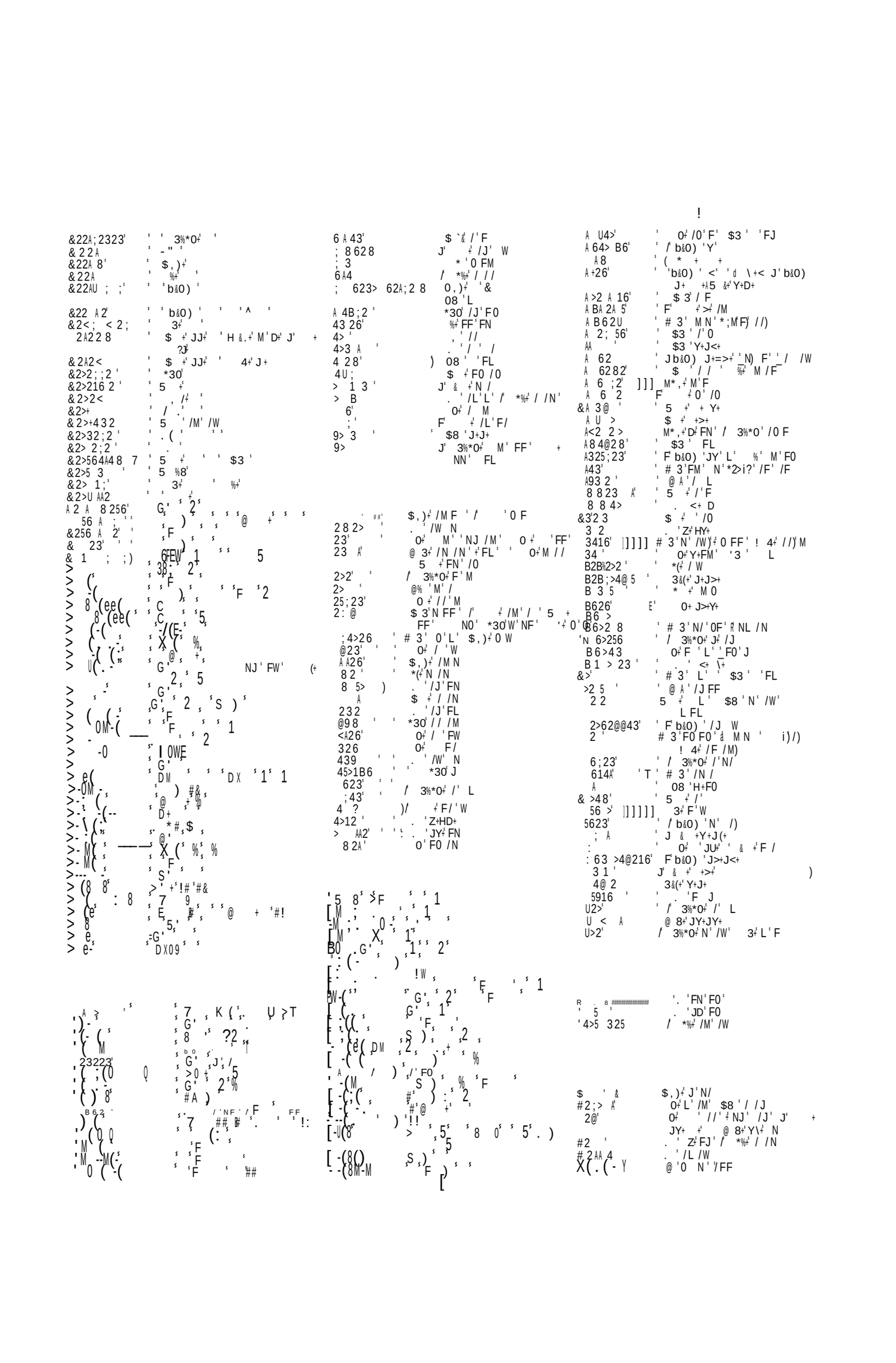

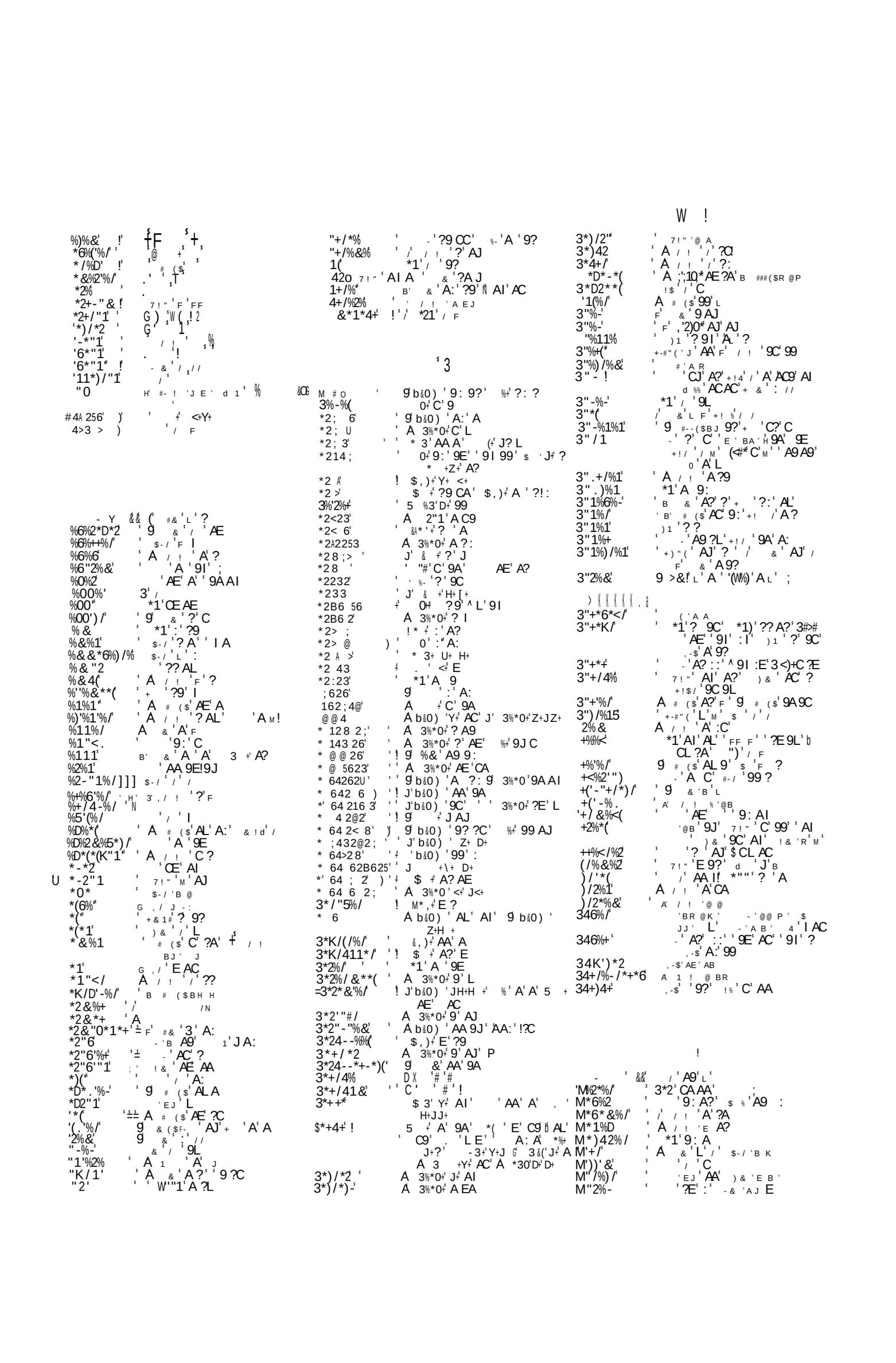

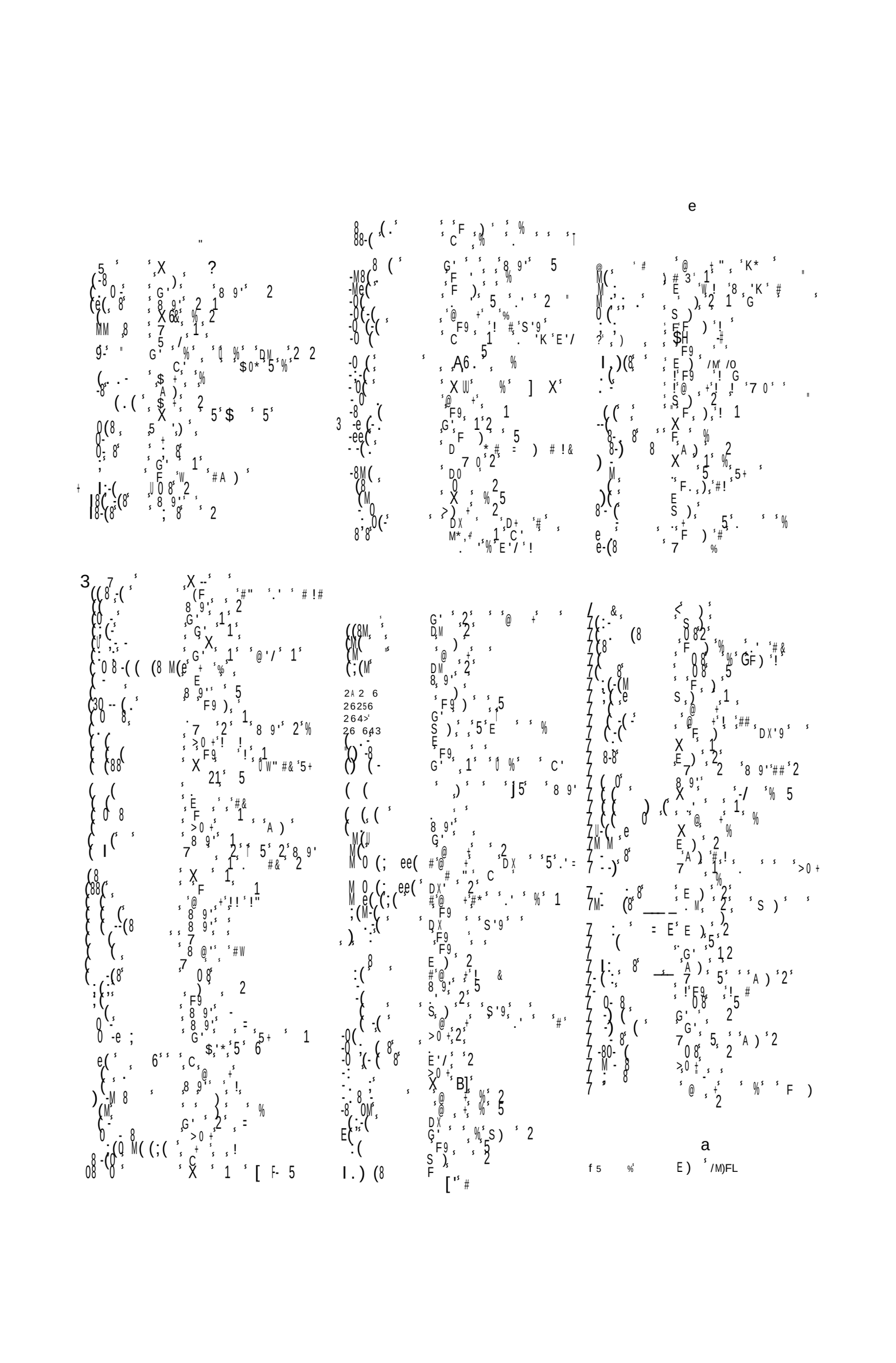

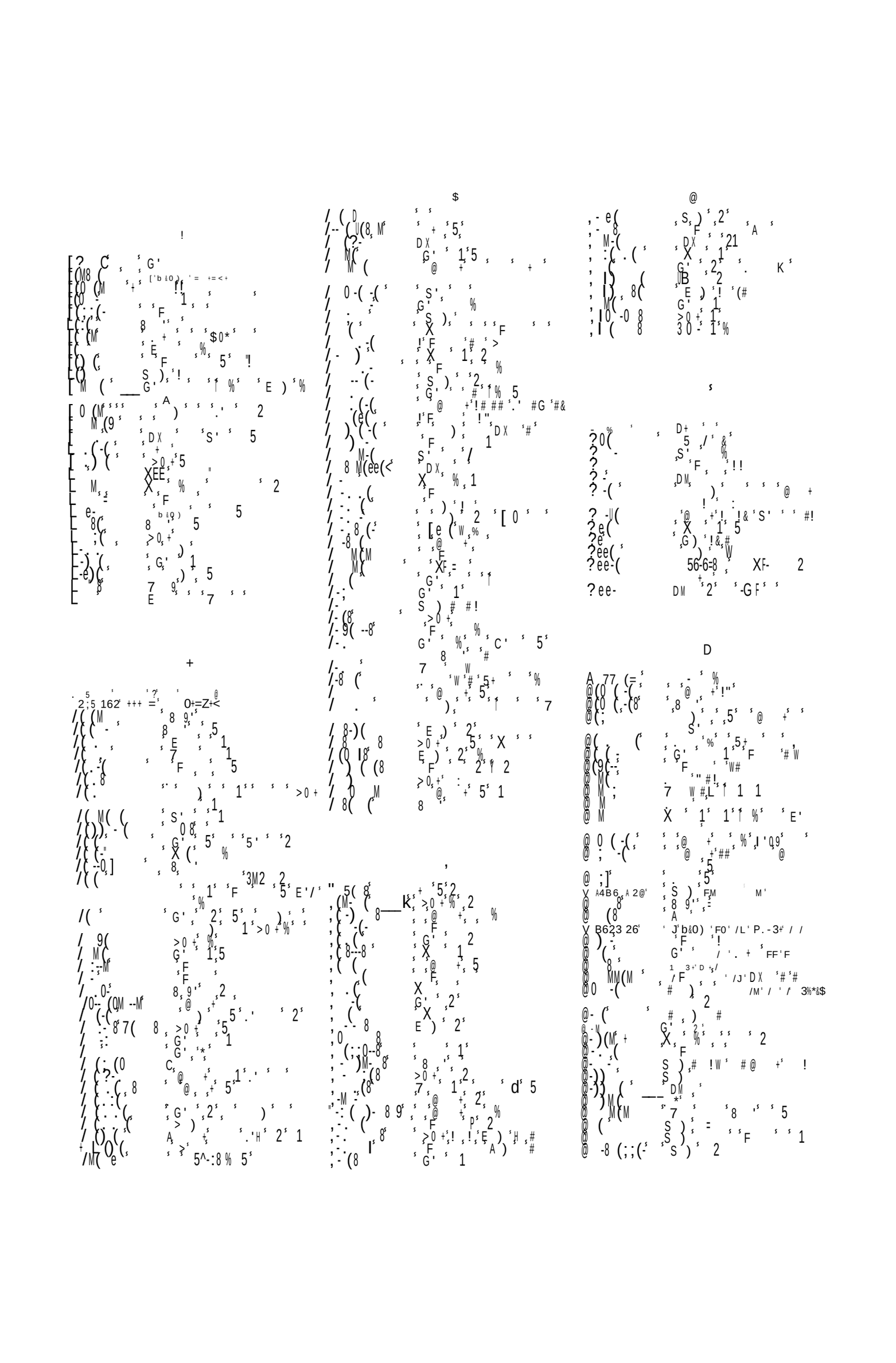

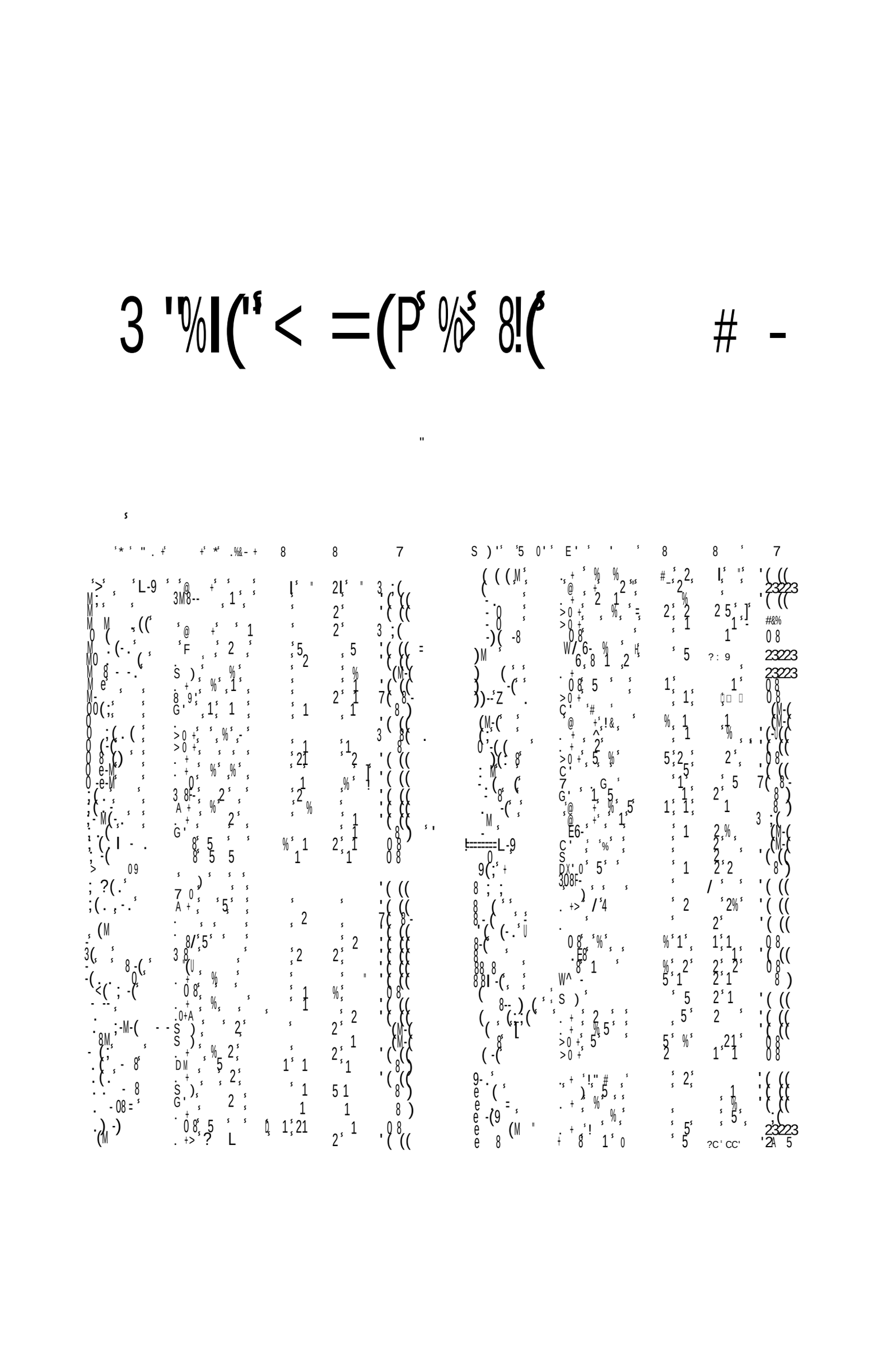

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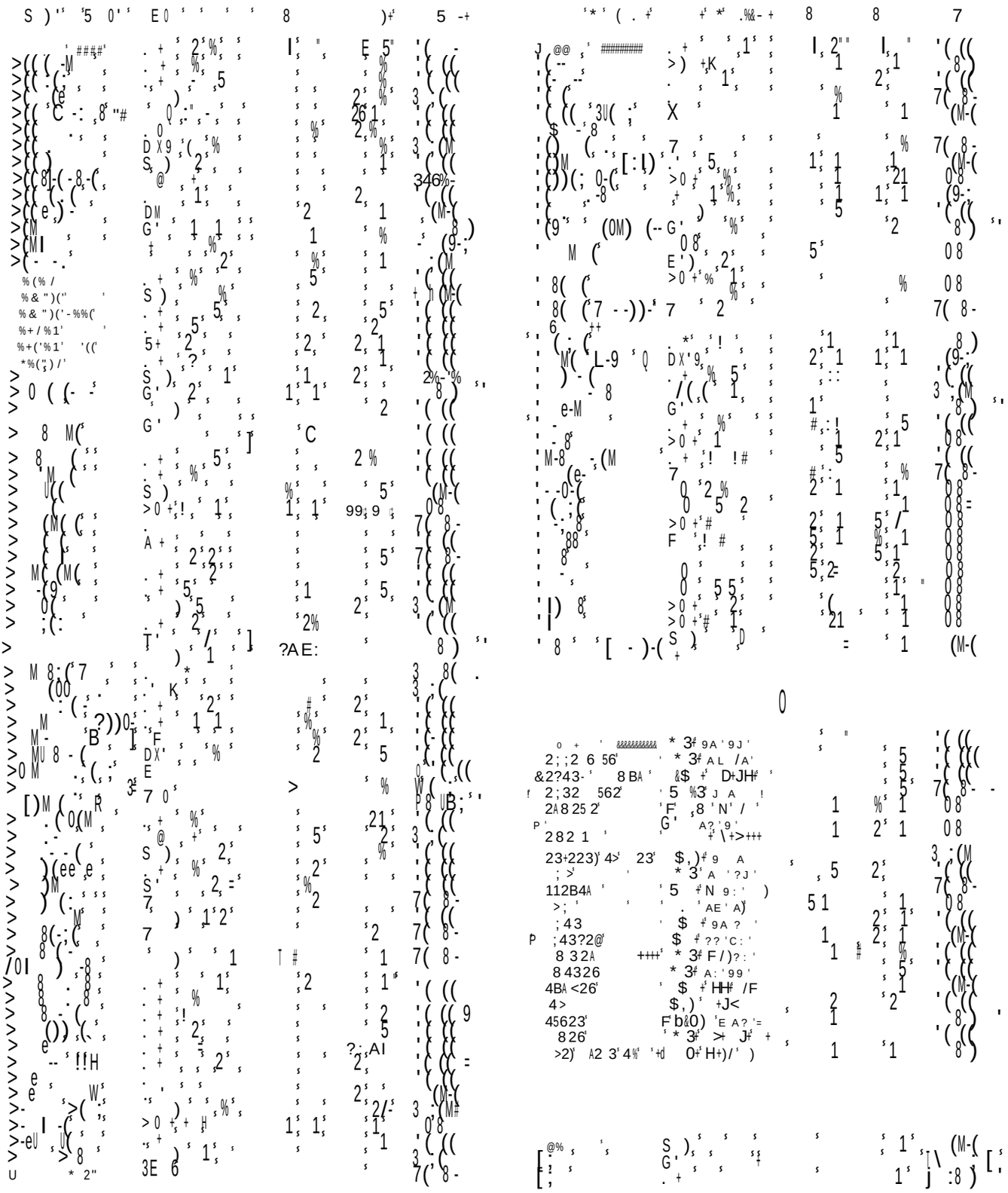

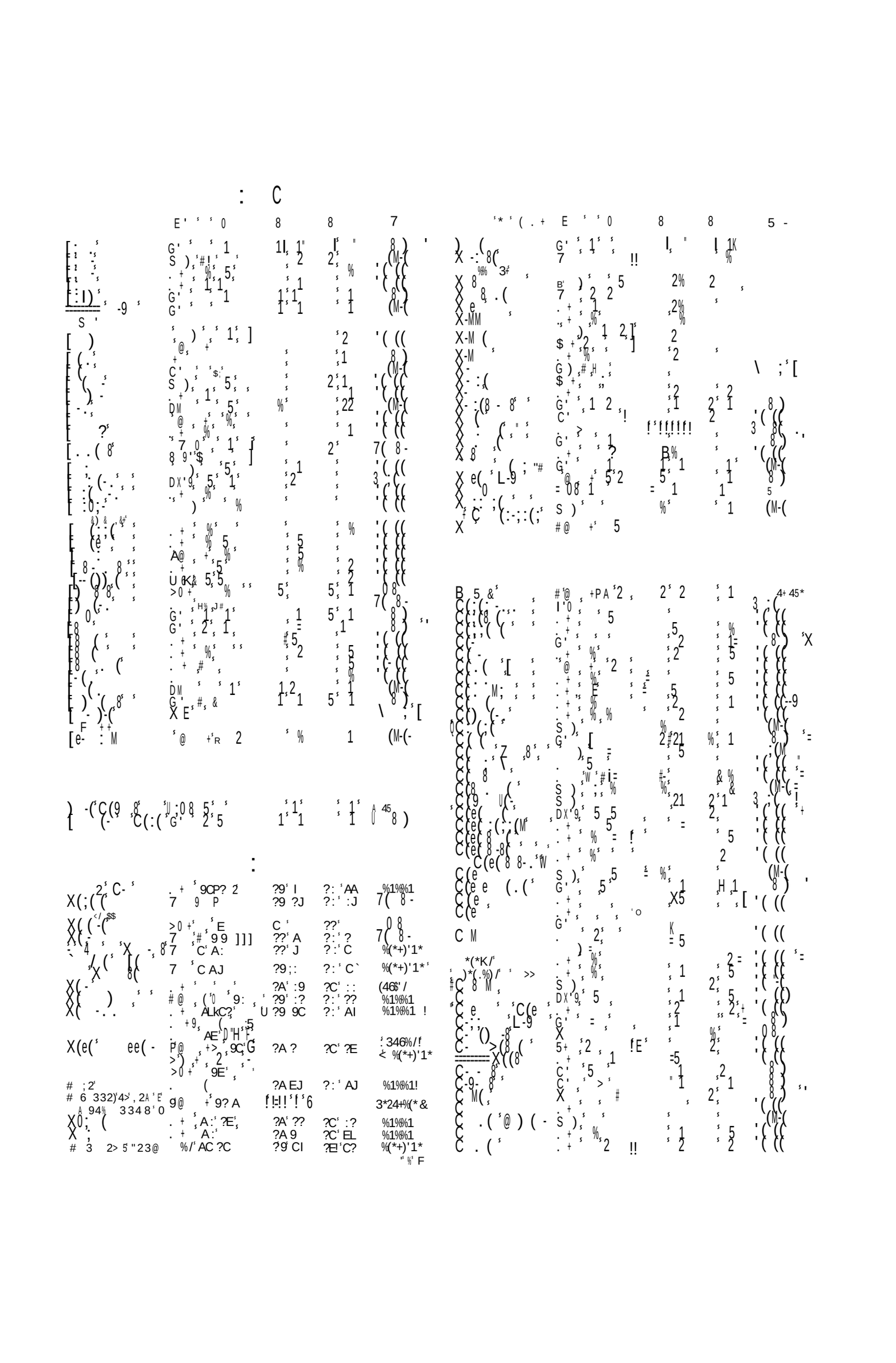

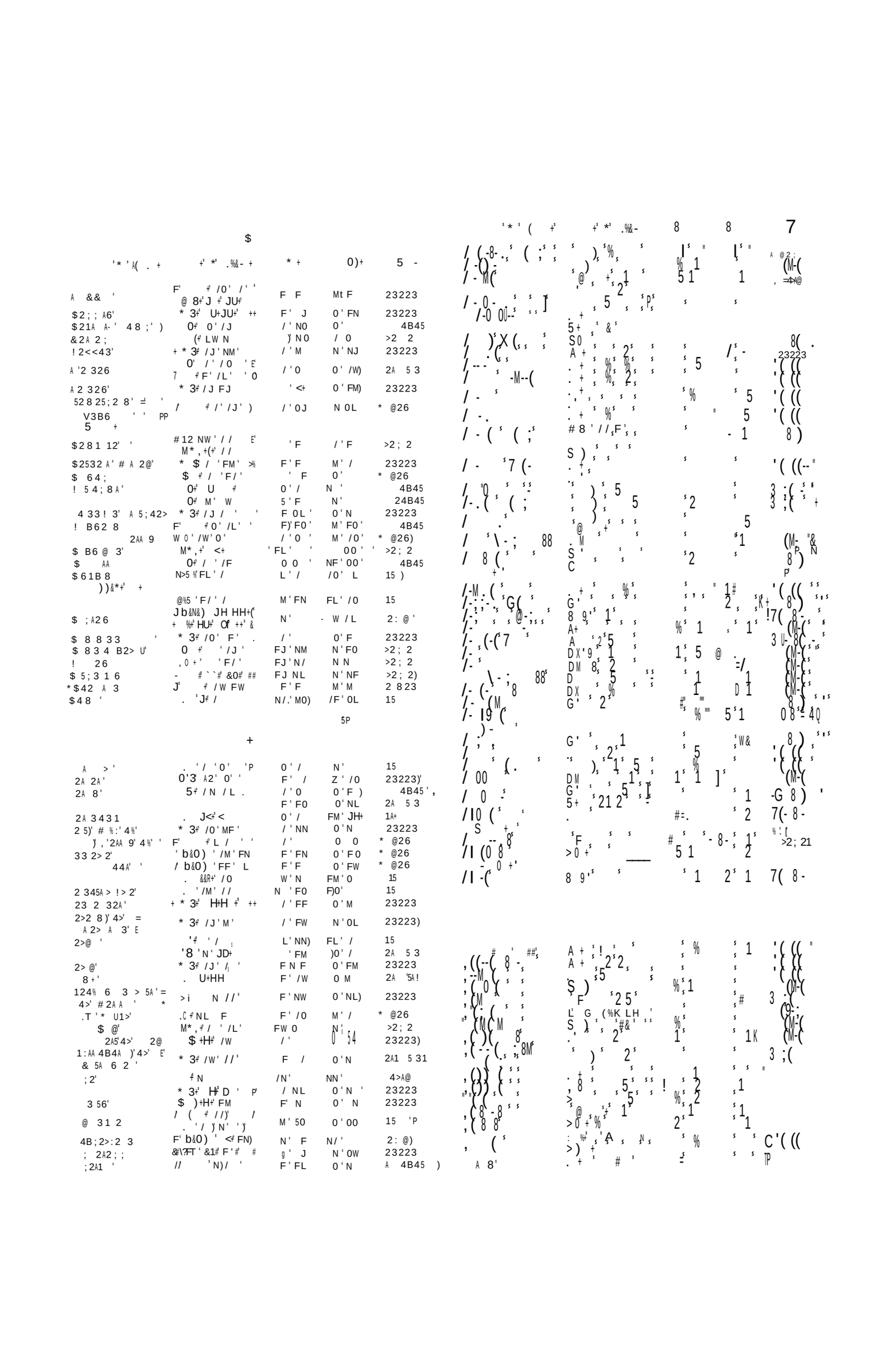

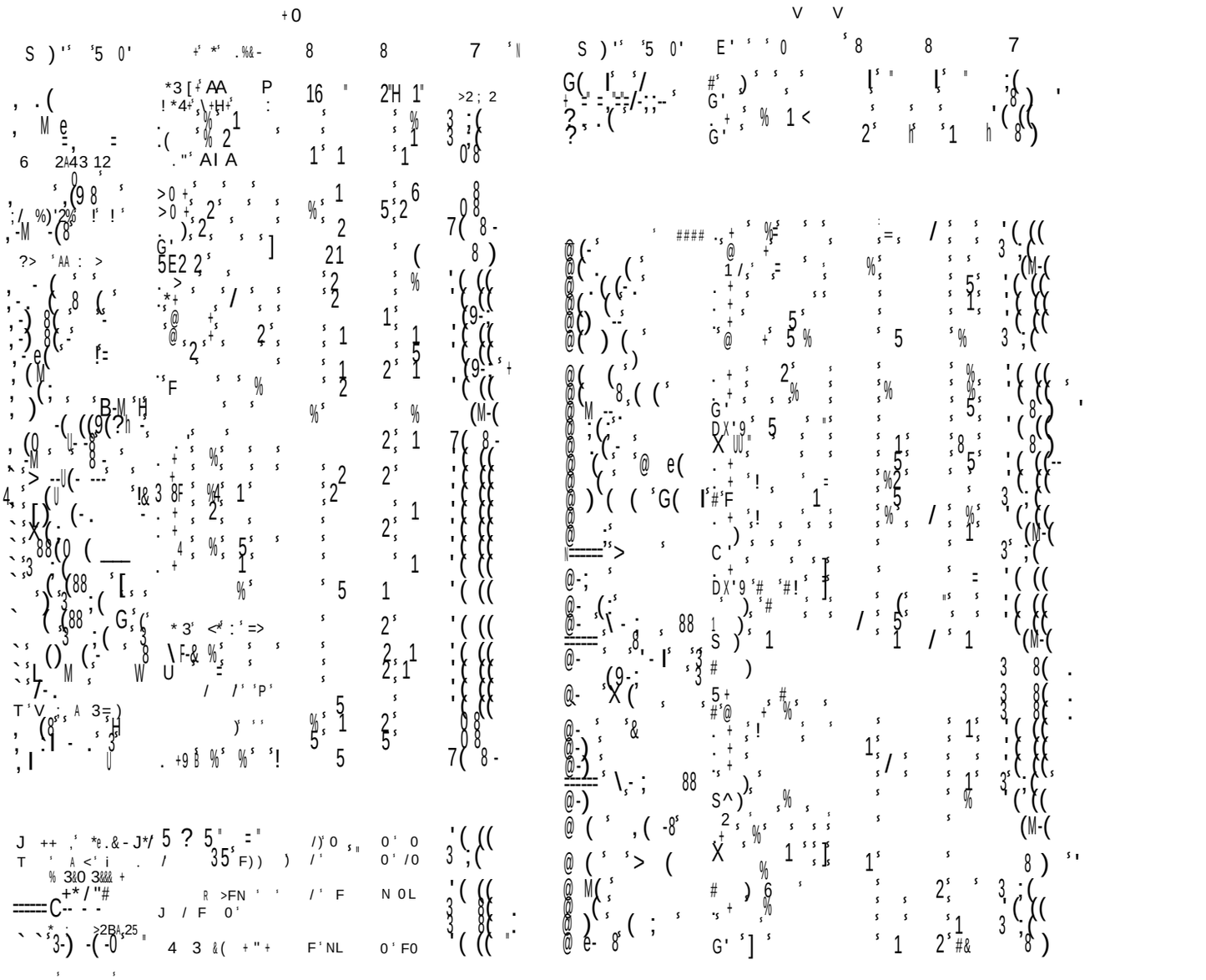

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